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 gaatctcctc caaggaagtc ccaggaggat ggggaccagg aaggctgtgg acccccatct 180
 ccagggggcc ttcccagcct gatccctgtc ctccaagttc tggaggaggc cgctgtaggg 240
 tctggctgag cttcccaccc actttccctg gtcccaatcc tttcttggtc tatacccagc 300
 tggggttgct gccctgaacg aactgcgtgt ggggcccggca catcctagca ggcagcccct 360
 ggcgcctgct gcctcaggga tgcctcaacc accctcgttc tcctcgcagt ggccctggct 420
 cccacccccca tggagaaccc aaagtcttac tgtatataac tccagggtgac gtttctatat 480
 ttatagcang ngttgaaaac ccacgtgttt tacacagaac caccctctcc aaccctctcc 540
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 ttttacttcc tctagatagt caagttcgac cgtcttctca gcgtccgcc agggccgtgg 180
 gccgaccccg gcggggccga tccgagggcn tcactaaacc atccaatcgg tantagcgac 240
 gggcgggtgtg tacaaaggnc agggacttaa tcaacgcaag nttatgaccc gcacttactg 300
 ggaattcctc gttcatgggg aataattgca atccccgatc cccatcacga atgggggttca 360
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 gnggctgggc gtggcgccca ctgagagcac caccataatg tgtgtctggg atacctctgt 180
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ccgctatgca gggtagcact gggnaacagg agaccacact gaggtcagc cctagccctn 180
agcccacctg gggagtttac tacctgggga ccccccttgc ccatgcctnc agcttacaaa 240
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agcccaatat ctctgacctc tggcctgatt cctagagggtg accagaattt aatgtcaggg 180
cctaaatagt cattgagtag attgcattcc tattggtgcc ctggaagacc tcacttgtgc 240
acctgtggga ccctgcccgg ggcagatagg acacgagcta aatgggtgct gggcaagtnc 300

3167

ctgtggacct gacaagggga cctgagcagt atgggaaggg gntttnggaa agnnagtncc 360
caccntntgn aattnaagng gtggntntnn nttttaggng gtngccaaat ttggtntnag 420
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3172

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3176

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gtgggtnana aggatttgca tcaggagtat ccgtgccctg gaggatttct ncttttgga 420
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cgccagtgcc ccactgnaaa gtttcttacg ggcataggcg atgnaggngn catgnatcca 240
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gnttggggnt gnaaagnctt tttncgncaa nttttcctnn aaaggggcnc ttggtttttc 420
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 cnnttttttg gtnccenttt ttnnagcaaa ccccaaancc ngtttaaaaa ggaaaaaanat 420
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 ggngnnttgg gtnaggacta ggggttttaa ccagccggng ggttttgggg gatttntttn 420
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agttgcgtnt tgnttcgggn cccangttag ggnttaagtt aacaacttnt ttgnccttca 420
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ctccaaacaa gagcttgaga ggcttgggng gtaaaaagat gtcgtttgtg aacattggga 180
ttaaagaggc actcaagttt agctcctgct tccaagtaag agttgtaaac ttggatttca 240
ntagcactta gaaacacttt ccagnagcca ncttagagtt ncagagtatg cgttgaggac 300
actttaccct tctgggttac aggaaaagnt caggaanttg cctggacatg aaggcagtnn 360
gttgccaga nccnnttttn aaatncngca agtaaaannt caggtggtag cctcgaactc 420
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catgggtgag ggttgagtaa ctcaagtactc taaggaggaa aggaagggga atatacactg 240
ttagttaaca gtggttattc ctgtattctc tcttgtttgg attctactgg gggatttctt 300
tctttttttg agtctttatt gacattaggn atgagagata gaaacagggg gagagaggaa 360
gtanaattta aatgtgnatt ctttccacnt nttaccngaa ctcaaccgta tttttgggat 420
cnatanatcc ctacttttcc cctggattta ttncacaaaa tcttnggggg naccacaggn 480
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gcnanggggn cgacttaggt gcagggtgcc tgaatgcagg ttctatgcg tcactaggta 180
agagaactga ttatggaaaa ttgtaccatg ttctctccct gatctctgtg aagacaagtt 240
catatacctt aatcatttct attcatnctn gtaatttnag gttgggtccc nntggtttaa 300
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ccctcaattt agagtctctg gtctaattcc tgaccagtga tgtaattatt tatcttcctg 240
ccctnatcct gggggtgcaa acagcaaact tggnaattnt gtttcaggct ttggnaaggt 300
tggttncagg tttccatctn cngtttagaa gaactgggng gntgcctgct gtggngttng 360
nggnttgngg ttcaagggtt cctgcttctg tgaantgncc aattntttgn ttcagggncca 420
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 agaaannatg gnnatggtgt taatgttaat ttctcaactt tgtgtttaaa tgtttaccat 180
 ttaacaaata tcattaagga aacagnttta aaattggaat ttcctaaaca ttatagtga 240
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 taatgtatta ttttttactt aaatccntta tcnttttgca gttgtcccga ctttattaga 360
 caggggnttg tnaataaacc tggggaccnc aggctagggt tttttnggac cggccatntg 420
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tattaatgat tacttatgaa aaacaacaac aaaaaagcca tcttgaagct gcttttaatg 180
agagaacaaa tgtgctccca agcaacagag cagcgaaaat ttttttatta ctggntttct 240
aacttttccc tgntaactnt aactgtcttc angttncacc nnatgtgact tnggggggga 300
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cgggctccgg ncaccgtnc tgccttgaat ctgcccgcgg cggcccgtgt tgtgttttgt 180
gctgtgtcca cgcgctaagg cgacccctc ccccgtagtg acttctccta taagcgnttc 240
ttttcgcata gtcacgtaac ttcccaccn anccntttcc tgtgtntnaa gnaattttta 300
ataatctaan aatttanang gntttttttt ntttggncaa aaaataatta aaangttttt 360
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gtatctgaat aatacagacc ctgtcccttc tcccagtgct gggatttctc catgtgaggg 240
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cattncaaag cctgcccttc attgggtctg gtttcaagtn ttccaaacca gntttggntg 360
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3242

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ccncgccggn tccaccggcc cnngaagcca gcctnggcac agttacgacc ncaagactac 240
gtgtnaaggg acagangcaa ggtagaccnc accaccanca ccancagcat naacancatn 300
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 aaagaaggca gtcccttggc actgcctgtt ctcaatgctg tgtgctgtgg actggggaca 240
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gagagattga ctagtgggtc agtaaggag aaaagaaagg aggggcgttn ntaaccttta 360
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ggggcaggna cacatggtnc ttccatttca cctctgttgg cctcctcccg gtgggtatttn 240
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tatggcaata tgcaggggcc cactgctagc taggtagtgc tggagcctgt gtgcactctg 240
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3251

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tgttgccctt atttttttaca ctttgcagag gactgacgtt atttttccata ctggcatgtg 180
ggaagctgtc actgacttat gacttgtnca ttcattctaa taaagtgacc tcacagatgt 240
gtttataaat gcattaaaaat ccaggcatgt tttcagagaa agttttttaga atataaatgt 300
tataatgtmn naaccacgnc cttttttttcc 330

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3252

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3253

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gtntttggcg ctgtgctagg ggcgggagtt cttccagact cttggaccag nccgccctga 180
ccaccagntc tacttcccaa cccccactgc ctgagagggtc tctatcagtg tctgcctga 240
attctttcct tcaagtgaag atgtgactga ctanctcctc gagttgttna tgaggntgaa 300
agaatgggna ttaaaagcat ttggtttaaa gtnggtgntc aataaaattg ttagtggntt 360
ttattcaaaa aaaaaaaaaa aaatttgggg ggggggnccg 400
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3254

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tgatgcacct tttcaaaact gtttttatgt ttctgttaa gttatgcaat gtctctactt 180
gggaaaaagt ttggaagggg acatttgtaa ccatacttac gtatTTTTTg atgtttctcc 240
attacttttc attcatgtgg gctgggcata taggaaacca antattaaaa caaggtgggc 300
acaagagtgt atgtggggnt gagtaaggaa aatggaaagc cagnaacant ntttattaca 360
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<220>

3255

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acggctcatt ttacgtcctt tgagaagaca gctgcgggga cgtcttagga tgattcactg 180
aggccagtca gtggtgggac caagagctct ggggaacata atttctatca gcctggcgctc 240
ttacttggn cccccctcca ctccctnacc caccctgtgc aaccctgtgg tctttntttt 300
gtgtaggacc atcagntt 318

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gacctgtttg ttgcgttttg tgctttgatg ccaggaatgc cgccagttt atgtccccgg 120
tgggggcaca cagcgggggg cgccaggttt tcttgctccc ccagctgctc tgcccccttt 180

3256

ccccctcttc cctgactnca ggcctgaacc ngctcccgtn ctgtnaataa atctttgtga 240
aattaaaaaa aaaaaaaaaa aaaactcggg ggggggcccc gtaccaantt gggccctt 298

<210> 3647

<211> 579

<212> DNA

<213> Homo sapiens

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<222> (2)

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3257

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<220>

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<222> (210)

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<220>

<221> misc feature

<222> (213)

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<220>

<221> misc feature

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3258

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<220>
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3259

<400> 3647

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tttgttcaan tnttgggtat gtntaanctg tnatgtacta gtgttctgtn tgtcattgtn 180
ttgtnaatta caccataatg ctaatttaan ganactccaa atctcaatga agccagctca 240
cagtgtctgtg tgccccgggc acctagcaag ctgccgaacc aaaaganttt gcaccccgct 300
gcgggcccccac gtggttggng ccctgccctg gcaggtcatn ctgtgctcgg aggccatctc 360
gggcacaggc ccaacccggc cccaaccctc cagaacaggg ctcacgttac tcaancatcc 420
tggctgcngg tctgtctgaa acagcngggg cttgaggacg tttgtctgtc gtgatgggca 480
aggcaaaagt ctggatgttg tgtgtatcga gaggccaaag nntgtggcaa tgcaagggga 540
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<212> DNA

<213> Homo sapiens

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3260

<400> 3648

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atattaaaaa acatttgaaa aagagaaaaa gaactatcag cgtttagaaa tgatgataga 120
tattgaatct ttgaattgaa ttttaacaat ncattctagt aatcagagtn tacttntnt 180
atacaacang g 191
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<210> 3649

<211> 465

<212> DNA

<213> Homo sapiens

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3261

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acacactctg ctattttttc acttcttgga ggtagaagtc gagtatgagg cagttatttt 120
ttagagtgtg gaattatagt ctttccttgc tcctagtatt tctgtatatc ttacttttgt 180
aggtaaaaat aaatgtttat ttaaaacaat ttttaaaatt ataaatttat ttttatagcc 240
atatgtagga tataaagatt tatatagatt atatactcaa gctacttaat gcnttaattc 300
tagctactca ncnngaaata gtaaacagtt ttacggaaat aaactctaca gacagatgcc 360
gtangaggag ccntgggaagt agaaangtat tcgccttgca cacggagtgg nttagccga 420
caacccagc angtnccat aacggccata ccttggaat ccacc 465

<210> 3650
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<212> DNA
<213> Homo sapiens

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3262

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<220>
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ctanccacct nctgagtcct ggcctccccg ggcgcacnaca ntcccagccg gccgnagcct 180
ggacacgccc ngggcccccc agtctccccg ggctgctccc ccaggcatgg cacagggggcc 240
tngtctgnac tatgggcagc agcacgggga caagnanggt tcgtatttga tgcttggggg 300
gncaaaaagtt gatggt 316

<210> 3651
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<212> DNA

3263

<213> Homo sapiens

<220>

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<400> 3651

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attcaaggaa gaaccttctg cccagctnt gcaagatgaa aagctntccc acttggtct 120
tatacttcca caagagcttn gncaggacca ggttgntact ggntcagcaa ctctgcagaa 180
aatgtcctcc c 191
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<210> 3652

<211> 426

<212> DNA

<213> Homo sapiens

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<220>

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3264

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<222> (320)

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acagtatcac tctaataataa tatggatcag agcatttatt ttggggagga aaacagtggg 180
gattaccggc attttatttaa acttaaaaact ttgtagaaaag caaacaaaat tggtcttggg 240
agaaaatcaa ctttttagatt aaaaaaattt taagtatcta ggagtattta aatccttttc 300
ccatanataa aagtacagtn ntnttggtgg cagaatgaaa atcatgcaac ttctagnata 360
tagactatat aatcagattg acagnatata gaatacattt atcagactag aagatgangn 420
ttanaa                                         426

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3265

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<213> Homo sapiens

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3266

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<220>

3267

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3268

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3269

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3271

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 tgcacagtgn ttgttttcct gtnttgnact tacnantaag gnctatggga gtaccatgna 180
 aaacgtttgc tgnantcct tnttttntna anngttttng ntnaaaattt gatcgncctta 240
 actactgcna acatagccta tttttgggct taanaanctg natnggaaac tntcnncgtg 300
 cagatgctgn actgttctag aagnntttng nttaaangggc tnctaatttg antgtaatgg 360
 cnttttaaagn atacaatcna acnttaaaaa gntgnnaaaa nggncttgga accntatctt 420
 tagttacttg aagagtttct agttttttta aaatacagnt tatgttataa taatttttat 480
 taattttagan aagacaatna atggctgtga gaaaaacgga tttcttttgg aatttcnttt 540
 tngggccatt gtnaangaat ngtttttctt ttntaanca caattttcct ttgggttaaaa 600
 cttaaantgg acatttaant tttggcaatc taagaggtta atttctgagg gggaanactt 660
 ataagcngtt aagtttgcct ntgggggntg ggaaatttta aactggggcn 710

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 <211> 634
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3272

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 cacaatacat tttanagaag tggcaagaca aaggaaagca ggtttaggct cccaaaggag 180
 ggacctctga gaagttacct ccacgaagca nctcggtcgg tgccagagag aacatcggta 240
 caggtctggg aatttcctcg ggagctggcc ccaagccaca gccctcccca gctccgtagt 300
 ttgnttggtc ttcctctcct gggctcaatc atcttggaca agcctcactg canggaaaac 360
 ccctggggag acacagggtc tgctttccca gcagaagggtc agtgtctgaa gagaaaactgg 420

3273

gggtcccccga gggaccagat tcggctccgg tggttaagggtg cccaggtgg cccaatagga 480
gagggttatct tctgggagct cttccaggag gaggccacag tgcttgggcc aagnttctnt 540
cttgaagaat ccaagcataa ggagcctttg ttggganca naggagccct gngccttctt 600
gagtcaccca ccagctcnag tgccctggac ctgg 634

<210> 3655

<211> 507

<212> DNA

<213> Homo sapiens

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<220>

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<222> (37)

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<220>

3274

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 gtgtgggttta ctccatgcag ntgtcaggag acctctgtat ggcttttcaa ttttagttga 120
 aattctctctt ccatggcctt ttggagtgccc ttgctgtatc tccgaagtaa atttcaatta 180
 ctctacattt catcaatgtt ggagtggcaa gaaaaaggag gaacagattt ggggtgaaaa 240
 gttttgtttt ctagggtctaa caaactgtaa aatgttnaaa atagcanana tgggtgaaaa 300
 aaaaaccaga gcccttttga ctttcgcgaa aganttttca aggattacct gcttcagcan 360
 accccatcnt gtgaccttga tttctggatc aagttatgtg ggggacaaac gaagcacagg 420
 ctcttcaggg atgctggaac agatgggtgga tcaaaatgga cttnatcacn catctgtnga 480
 agttnccttg gattgaaaaa ctcanga 507

<210> 3656
 <211> 433
 <212> DNA
 <213> Homo sapiens

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<220>

3275

<221> misc feature
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 ttttcagctc ctccacacct actcacttgc aatacttgtc ataacaggaa gccagtttca 180
 tatactgtaa tccccaaaca cattgcaccc acacgtgggg agcgtgaggg gctgagcgag 240
 gagcgaggag gccaggcctt ccaaaaactg gaggggctga gcactgagcc gctcccaagg 300
 tggggcgctc ccaactccaa gccaggatt cagaagccag aatccacatc cagacattct 360
 tgggtttcctt tctcatgcag ttgctggtga ctnttttttt ttttaataaag catttgagta 420
 ggcaaaanan ann 433

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3276

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 ctgttttgggt gtgtatgtgt gtgccaccta cccatgcttg tctctgcgcc ccggcgcacc 120
 tggcgggggtc ccggcaggaa gtgcagcggc ggctgggtgg ctggaccgga ccagagctca 180
 gtgcttttgg ggaactggtg ttggagggcg cgttccgagg aggcggaggg ggtggccccc 240
 ggctacgagg gggtagcgg ntgctcttcc tgttctctcg gatgctgntg gtggccaagc 300
 gcagggggct ggagtagacc tacaaaggcc acatcttnnt gagtttgggg atgggggtggg 360
 gctanaatac tacctacn 378

<210> 3658
 <211> 282
 <212> DNA
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3277

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<220>
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<222> (280)
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<220>
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<222> (282)
<223> n equals a,t,g, or c

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angaaacca taatgtnagg atacttgatt tttatatnca gataattctt tcatgcactg 120
aatggaagac agtatatctg tatattaatn tttgttnaga ttatgaatca ttttaaccctt 180
atccttttatt cttgtaataa gactatttaa tgggggttctc ttgtgatntc catctttatc 240
aatgcattcg tgttggtctt gatgtatact acctgngntn an 282

<210> 3659
<211> 242
<212> DNA

3278

<213> Homo sapiens

<220>

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<220>

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<222> (232)

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<222> (236)

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<400> 3659

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ttagcttaat tacttcattt gatttttaat atagacataa aaatgcagat gaaccagagc 120
ttttgtaatg aaaatcattt ccgaaggaat atttcagacc ccactccgtc acctccagcc 180
tgcagaatgc gtccagaaat aaattctgtg tctgtgtgaa aaaaaanaaa anctannang 240
at                                                                 242
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<210> 3660

<211> 479

<212> DNA

<213> Homo sapiens

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<220>

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<222> (267)

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<220>

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3279

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 ttaattttata gcaaccatttt gttacctaat cacagtaaca caacaaaata attagtgtat 120
 cancttttgaa gatctcatttt cacaaaagct aaaaaaacacg ttatgatata tccattactc 180
 aaactcataaa gccctttttgc atgcattggg catagattttc atggaaaaatc aaaagcatttt 240
 agtctactttt ctgacattttt catctgntct ttgaactacc ttaataaaaaa aaaattgttg 300
 cccttatgta gggtaagtg acgtttgtct gtctgaaaat ttccttgat cagcttatttt 360
 ctgngnaact tatgtctttg gtatacagct atttgccttt ttaactgatt tttaacagga 420
 tactttacct tgggacttgg aacacttaat gnaagcttat aaanncncat gaaccattn 479

<210> 3661
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 <212> DNA
 <213> Homo sapiens

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3280

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<222> (370)

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3281

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 <222> (468)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (469)
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<400> 3661
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 ctctgcaatg tcattctgtg gatcatgcct gccttcgggg cccgccctca tttcagcaac 120
 acagtggagg tggatttcta cggntactcc ctctggggcg tcatcagtna acatctgcct 180
 ccctttcggc atcttctacc gcatgcacgc tgtgtccagc ctgctggagg tctacgtgct 240
 gtccctgagg ctccaacaga ggcattgggg gcaggaagag ggggctcagc tcatgtgccc 300
 actcagacac cctntgggaa tgaatcccan ctggtgccat atgacagccc atttccttct 360
 ggtcccaaan tggaattttc acaaaaagtta tttttccagg ttcaattttt aaatcacagt 420
 caggacangc ccattcaccc cagnattaac gtggggcatt aaggngannt ggggaaaggg 480
 agaccttttc t 491

<210> 3662
 <211> 64
 <212> DNA
 <213> Homo sapiens

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 <222> (28)
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<220>
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 <222> (32)
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<220>
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 <222> (36)
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3282

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<222> (52)
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<220>
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<222> (53)
<223> n equals a,t,g, or c

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gcca 64

<210> 3663
<211> 100
<212> DNA
<213> Homo sapiens

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<400> 3663
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cgccgaata tnaatttgga acatgttggt gagttacctt 100

<210> 3664
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3283

<212> DNA

<213> Homo sapiens

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<222> (396)

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<222> (419)

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<222> (444)

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<400> 3664

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acagcagcag atccatgggtc tcatcagtggt ccttgtagct ttgtgcagca gttccgggct 120
ggaagacaga tacagctgga cagagctcct gaaaacattt caaaataccc cctccccctg 180
ccctgccctg cctttgggggt ccaccggcac tccagttgga tggcacaaca tagtgtatcc 240
gtgcagaagc cgagctggca ttttcaccag tgtanccaag ggcctttgcc aagggcagag 300
caggtggagc cctctgcctg ccctatcaca catacgggta cttgcttttc actgtgatgt 360
ttaagagaat gtatgaacag tttacatttt ccttanaaat acattgatgg gatcacagnt 420
ggcttttaaaa ccancaacaa tctnn 445
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<210> 3665

<211> 387

<212> DNA

<213> Homo sapiens

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3284

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<220>

<221> misc feature

<222> (365)

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tgttacctca gggactctat ttaaattgctt gctttttctg cagcaccgct tggggaaatc 120
ctgtcaggat gaaaaggaaa gttggagatt ttttaaacc ctcttcgctt tgctttattt 180

3285

tcaagtaccc aaacttgggt tattcttttt ttcctttaat cttgaaggct tacccttggg 240
gggaattggt tggggccaag ccaaggcccc ccttggaact tccccaagaa aaatggnctt 300
gaaaggggtc cccttctttc ccaagggggg aagtttcccc ttgggggggaa gccaaggaan 360
ttnnnaaagg ggccttatt ttcccc 387

<210> 3666

<211> 138

<212> DNA

<213> Homo sapiens

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<222> (15)

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<222> (56)

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3286

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tnacattttg accatgttgt gctcaacaag agtacagatc acaacgagac nctgcggaan 120
tctcncagac taccgtta 138

<210> 3667

<211> 577

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (302)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (431)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (516)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (540)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (557)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (561)

<223> n equals a,t,g, or c

<220>

<221> misc feature

3287

<222> (565)

<223> n equals a,t,g, or c

<400> 3667

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gaaaantnga aattctcaag cagttttatt caattagaac ttgcaaata tcaaattgtc 60
cgtatccttc tggattcttg tctgaacatt gcttatctgc gtacatatca cagtgttttc 120
acatagggat tgctgtatgt tgaagtagtt gaggtgtaat agccatataa tctaattgtga 180
tccatctgaa taggcaaacc cttgcacacc tgtgtacctg ttgaacattt tcatcatttg 240
cagttttttc ttaacataag cactgttctg aatacttgtg aacaagtcac ttgggagttt 300
gntcatgggc gtgtatcttc caaagaggag tcttcacgtt caagctgggt aacacactat 360
cagctgtagc cttttcattt taaaaacatt tccagtgtctg caaattacta tgggtgattgg 420
gaattcaact nggaaatatt tttatttttt aaaaagatag tacattcata tgaatcaaaa 480
taaaatcctt aaaaagggtc atgaaaagtc ttgctnccgg ccctacccac tattctgcgn 540
aagtccaccg gttcctnaca ngaanttaaa tttttag 577
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<210> 3668

<211> 102

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (27)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (36)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (74)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (82)

<223> n equals a,t,g, or c

<400> 3668

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gctctagang atccaagctt acgtacnatt gtgtgntact ggtatatatg gttctatatg 60
cgtacattaa attnatatta tntggccagt aagatttaca aa 102
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<210> 3669

<211> 346

3288

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (12)

<223> n equals a,t,g, or c

<220>

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<222> (13)

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<220>

<221> misc feature

<222> (278)

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<220>

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<222> (293)

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<220>

<221> misc feature

<222> (297)

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<220>

<221> misc feature

<222> (300)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (301)

<223> n equals a,t,g, or c

<400> 3669

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gattataatt tnntgtgtaa tagctattca ttccttcatt tatccaatcc tcttaaaaaa 60
atgtagctga agagtttaca caaaaataaa taagtcaagg gatgtgaatg tagtcgttat 120
gtgctgtggg agccaccctc ggttggctgc gtaggcaggg tgaactggta gcagtgtgga 180
ggtaaggagg tgaggcctgg aatggagaag ggggggtgtca gtgagatcag tggaggctgc 240
agaggtccag caatgctgaa ggtctgaaat gaggcagnga tgggttgaag atnagangcn 300
natattaaac ttttatgagg tagaataggc aaatggtgat ggctta 346
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<210> 3670

<211> 131

<212> DNA

<213> Homo sapiens

3289

<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (12)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (14)
<223> n equals a,t,g, or c

<220>
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<222> (19)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (101)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (104)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (113)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (115)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (131)
<223> n equals a,t,g, or c

<400> 3670

3290

canggnttaa antnttagna agaactggga taataaaaac agttacggag ccactttatg 60
aagtgaagag aaatatgata acctagaggc ccaatgaggt natnttccag aangntgagt 120
tatatttaaa n 131

<210> 3671
<211> 74
<212> DNA
<213> Homo sapiens

<220>
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<222> (7)
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<220>
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<222> (40)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (45)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (52)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (54)
<223> n equals a,t,g, or c

<400> 3671
gagtgantat tggattctct ttggtatgtc aataaaaagtn tatangtatg tnanaacgga 60
tttgaggaaa aaaa 74

<210> 3672
<211> 104
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
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<220>
<221> misc feature
<222> (27)

3291

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (84)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (87)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (91)

<223> n equals a,t,g, or c

<400> 3672

taccaggagg acgtaatgat taatnancct atcccaatgc cttgtgacta ctctacgatg 60
actgactatg cactgctgat gcantgngct nattcactat gggg 104

<210> 3673

<211> 490

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (352)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (417)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (427)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (442)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (473)

<223> n equals a,t,g, or c

3292

<220>

<221> misc feature

<222> (476)

<223> n equals a,t,g, or c

<400> 3673

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ggaagttcat caatcagtgt gtctaagtgt tcaactggta tataccattt tgtagtttca 60
gctatctttc caacttccta aatcatcacc ttcatattgat cttgtttttt tccactatca 120
cttcttttatt gaccatataa agaataataag tgagttctta ttttggttatt gttcatttta 180
gtctaatttc atcaaaatat cacaatcttt taatttcatt ttaatttcaa agattaaatg 240
aaacctacat agaaatgtgt gtaagatttg catttgcat attttggcat caatttgcta 300
tcctccctca tgcacacaga aatcatttcc accgtatgtg atttcaaaca tncaagtgca 360
gattaaaagc agttgtaaat tatggttctc attttcatga tacaattata atataancct 420
ctcttgntgc tgtaaccaat tnccaccaac ttcatatctt accataaagt gancgntaat 480
cctaaaaaaaa                                     490

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<210> 3674

<211> 53

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (27)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (30)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (39)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (48)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (52)

<223> n equals a,t,g, or c

<400> 3674

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ggcgagcggt tttagccttta tttttanttn tcctctttnt ctggccanatt cnt 53

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<210> 3675

<211> 63

3293

<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2)
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<220>
<221> misc feature
<222> (43)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (47)
<223> n equals a,t,g, or c

<400> 3675
gntttgtaga gaacatatat gcataaacat agggcaatta ttnttcnaat ggagacatat 60
aat 63

<210> 3676
<211> 456
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (230)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (408)
<223> n equals a,t,g, or c

3294

<220>
<221> misc feature
<222> (417)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (438)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (455)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (456)
<223> n equals a,t,g, or c

<400> 3676
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atTTTTgcag ccagatgtgg gctgacagcc atcactcagg gcttccttcc cccgccgtta 120
ggaggtcttg aagacagtca cgttcccat tttgcagaat ccccatcaac attattgaag 180
atggatgtat ctttaaagca aagattgatt gtggatatcg gagttatggn gtcatttatc 240
atggtgaata ttatttagac ttgggttgta caaggctgta acttgagaca cagccagggg 300
agggacaacc tgaaaacgcg gatccatgaa ttttaatgga tggatgcttt tttcaaagct 360
caactcacta tagcgtgatt tacttttctt actgcaagga aacaagcnat ttcaagnctt 420
aaagagacag catgccantg gtcctgtctg gggggn 456

<210> 3677
<211> 291
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (179)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (188)
<223> n equals a,t,g, or c

3295

<220>
<221> misc feature
<222> (227)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (228)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (231)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (280)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (285)
<223> n equals a,t,g, or c

<400> 3677
ggatnaagta aaggacgagc aagttcctca ggaaatcaag aaagcagcgg tcagagctgt 60
attattctcc tctttgatgt aataaagtca gctattagat atgagaaaac catttcagaa 120
gcctggatta aggcaattga aaacactgcc tcagtatctg aacacaaggc ctgcattgnc 180
ttcattgnta tctttaatga ctgtattctg gtctaataac tcagttnnng ngtcctaaga 240
agtggagcat tcagttaaga taagtagtaa aatTTTTTTn gtttnttctt g 291

<210> 3678
<211> 231
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (81)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (97)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (152)
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3296

<220>
<221> misc feature
<222> (166)
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<220>
<221> misc feature
<222> (191)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (196)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (214)
<223> n equals a,t,g, or c

<400> 3678
ggagaaaaatg atattttaagc caagaactct tagaagttag ctaagaaaga gatgggaaaa 60
tgagacgaca ttgctggagt ngataaaaact gcatgtnaaa ggcaggaaga tggggaaaaa 120
aagttcagta aagctggaat ggggaaatgt antccgggac tgaatnttaa agggctttat 180
caacctcagt naagantttg gaccttatgt tganggtggc tgataacata t 231

<210> 3679
<211> 387
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (158)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (169)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (199)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (200)
<223> n equals a,t,g, or c

3297

<220>
<221> misc feature
<222> (208)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (220)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (228)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (231)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (236)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (248)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (311)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (343)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (348)
<223> n equals a,t,g, or c

<400> 3679
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agaaccagtc catgctgttt ttatttttta tctccgaatt gtagaatatg ttactaacgt 120
ttccagtgc agactggcct cgaggctgcc gggtgagnag cagattttng gtatgaatgt 180
gaactaaacc aggcttcnnn ataatagnct aggcaaaatn ctaaaaanta nttagnaaca 240

3298

gttgtganag tataataagt gagaaagttt tgaaataata ttagaagtga aaaggaggaa 300
aatgtatgtg naggagcagc taatcaagag gtggcttttt tancacgntg actgaagata 360
cgtgtatgga tgactaaaac caaggga 387

<210> 3680
<211> 109
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (64)
<223> n equals a,t,g, or c

<220>
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<222> (85)
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<220>
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<222> (89)
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<220>
<221> misc feature
<222> (94)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (105)
<223> n equals a,t,g, or c

<400> 3680
gctcgtgccg aattcggcac gagggaagtg aagccccagc gagcggctgc aacggggccc 60
tgangaacaa ccaacgggaa gcgnggcna atcngtgaac aactnggaa 109

<210> 3681
<211> 384
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (141)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (258)

3299

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (349)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (350)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (352)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (366)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (367)

<223> n equals a,t,g, or c

<400> 3681

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ggggaaactc ggagtacctg cagctggcct ctgtcactga ctccacacag gtgaatgtgc 60
cccgtgtctt acatttctca ggagtgggga aggtgcgaca ggctgcatgc ggtggcacgg 120
gctgtgcagt gttaaacgga naaggacatg tttttgtctg gggctatgga attcttggga 180
aagggtccaaa cctagtggaa agtgccgtcc ctgaaatgat accaccact ctctttggct 240
tgacggagtt caaccanana atccaggttt cccgcacccg atgtggactc agccactttg 300
ctgcactgac caacaaaagga gagctgtttg tatggggcaa gaacattcnn anggtgcctg 360
ggaatnngtt cgccttgaag gacc                                     384
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<210> 3682

<211> 481

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (305)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (416)

<223> n equals a,t,g, or c

3300

<220>
 <221> misc feature
 <222> (421)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (424)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (449)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (468)
 <223> n equals a,t,g, or c

<400> 3682
 cggaaaagcgg ctccgagcca ggggctattg caaagccagg gtgcgctacc ggacggagag 60
 gggagagccc tgagcagagt gagcaacatc gcagccaagg cggaggccga agaggggcg 120
 caggcaccaa tctccgcgtt gcctcagccc cggaggcgcc ccagagcgct tcttgtccca 180
 gcagagccac tctgcctgcg cctgcctctc agtgtctcca actttgcgct ggaagaaaaa 240
 cttcccgcgc gccggcagaa ctgcagcgcc tcctcttagt gactccggga gcttcggctg 300
 tagcnggctc tgcgcgccct tccaacgaat aatagaaatt gttaatttta acaatccaga 360
 gcaggccaac gaggttttgc tctcccgacc cgaactaaaag ctccctcgct ccgtgngctg 420
 ntangagcgg tgtctcctgg ggctccaang cagcgagctg tgcccgangg gttcggaagg 480
 c 481

<210> 3683
 <211> 309
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (6)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (13)
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<220>
 <221> misc feature
 <222> (108)
 <223> n equals a,t,g, or c

3301

<220>
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<222> (149)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (174)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (178)
<223> n equals a,t,g, or c

<220>
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<222> (200)
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<220>
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<222> (209)
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<220>
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<222> (243)
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<220>
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<222> (264)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (272)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (278)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (302)
<223> n equals a,t,g, or c

<400> 3683

3302

ttttanggtt tcntaaaaag tatttaggtg acactatata agtacgcctg caggtaccgg 60
tccggtaatt cgcggccgca tcaaccgaac cgggtgcgccg caaactangg cgcctcgggc 120
caggggaacgc ggtaagtaac catggccanc gctaacgggg cccgtggtaa aacnggcnc 180
cggacagggga atccgccggn cctgccgcnc cccatcctca acctggaggt caagttcacc 240
aanatattta tcatcaatgg aatngcacgt antccaanat tgggaaaaaa gtttgctaca 300
tntaacctt 309

<210> 3684

<211> 440

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (161)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (240)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (277)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (315)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (327)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (335)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (410)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (413)

<223> n equals a,t,g, or c

3303

<220>
<221> misc feature
<222> (414)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (424)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (432)
<223> n equals a,t,g, or c

<400> 3684
gataaggttc atgctttaac cagatccgga acatagacct gatataatttc aagtgtcata 60
ttttgcattt aaatttgcca aaaaggattg tccagtctcc aacatcaata attcttctat 120
tccttcagct cttcctgaac cgatgactgc tagtgaagca nctgctagga aaagccaaat 180
aaaagccaga ataacagata ccattggacc aacagaaacc tcaattgcac caagacaaan 240
accaaaggcc aactctgcta ctactgccac tcccagngtg ctgaccattc aaagttcagc 300
aacacctgtt aaagnccttg ctctgntga attcngtaac catagaccaa aaggggcact 360
aagacctgga aatggccctg aaattttatt gggtcaggga cctcctcagn agnncgcaca 420
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<210> 3685
<211> 166
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3304

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3305

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tatttgggtgt gctgttgaag gggggagact agagaaatgg cagggaacct cttatccggc 180
gcaggtaggc gcctgtggga ctgggtgcct ctggcgtgca gaagcttctc tcttgggtgtg 240
cctagattga tcggtataag gctcactctc ccgcccccca aagtggttga tcgttgggaac 300
gagaaaaggg ccatgttcgn agngtatgac aacatcgggg tcctgggaaa ctttgaaaag 360

3306

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caccctaaag aactgatcag ggggccata tggcttcgag gttggaaagg gaatgaattg 420
caacggtgta tcccaaagag gaaaatggnt ggaaagtaga atggtcgctg atgacctgac 480
aaccttaata aacgcatccc ctatctctac caacctttaa ccgacatggg aggttcgata 540
ganagaaagt gagactttga aaggtcattg cncctgagaa ggaactgctt tcctggagga 600
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ctaggatatt cctaccttca cttacattat tacttgccga tgtgctgcct tnataaatgg 180
gtatattccg ccacacatct agtaagcccc caatgcagta cacaatgtgt atcactgata 240
aaactgcac ttctgccatg tcagtattat attcagnttn agtgggtcttt agcatantgg 300
cagtnctagn 310

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<210> 3688

<211> 468

3307

<212> DNA

<213> Homo sapiens

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acacagagca ggactgcaca gcgtcctgtg ccacacccag cttcagcatt tccacaccaa 180
gcagcaacag caaatcacgg accactgata gatgtctatt cttgtttggg gacatggggg 240
tgnttatctt ctgttctatt ttgtgcttta gtcccattcc ttgacacana gtaggggtan 300
cccatccaat tancntttgg natggnttta gggattgggt tnnccctaaa aatnantnng 360
ggttnttttt tnaaaaaaaaaa aaaaaaaaaat tcgngggggg gggggccgnt ncccnttggg 420
ccntnnnggg ggggnnnana gcgncgtngg gggggggggg ggggtgtn 468

<210> 3689
<211> 403
<212> DNA
<213> Homo sapiens

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gttccaatcc tgcccaccca ccacctatta atccaccctt tccccagggc ccctgtcctc 180
ctccccaggg agctcccat ggcaatccag ctttcccccc angtggggcc cctcatcctg 240
tgacagacca gggatccag gatgccaanc gttgggtcct accttctcca taccaacgct 300
gccctggaat cctctgtgaa tccttgggtc ggcattgtga ccacatgata gtagacaaga 360
gancagagaa aatgaagaag tcataaaaga tgcacagacc aaa 403

<210> 3690
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3311

<212> DNA

<213> Homo sapiens

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tgccggcncg gnccaccccg cgcacaanaa aaagtgcgcg ggctcncggc gggcgntcgg 120
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<212> DNA

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3312

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3313

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caagcataat atagcaagga ctaacccta taccttctgc ataatgaatt aactagaaat 120
aactttgcaa ggagagccaa agctaagacc cccgaaacca gacgagctac ctnagaacag 180
ctnaaagagc acacccgtct atgttgcaaa atagtgggaa agatttatag gttgangcga 240
caaacctacc gagcctggtg atactggttg tccaanatan atcttagtnc nactttnatt 300
tgccncagaa ccnctaatacc cctgttatct actnttancc caaaagaacg tctttggacc 360
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ataaccaagc ataatatagc aaggactaac ccctatacct tctgcataat gaattaacta 180
gaaataactt tgcaaggaga gccaaagcta agacccccga aaccagacga gctacctaag 240
aacagctnaa agagcacacc cgtctatgtt gcaaaatatg ggaaagattt ataggttgag 300
gcgaacaaac ctaccgagcc tgggtgatact ggttgttcca agatanaatc ttatttccac 360
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3315

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aaaaattata accaagcata atatagcaag gactaacccc tataccttct gcataatgaa 180
ttaactagaa ataactttgc aaggagagcc aaagctaaga ccccgaaac cagacgagct 240
acctaagaac agctaaaaga gcacacccgt ctatgtagca aaatagtggg aagatttata 300
gggtagaggg cgacaaacct accgagcctg gtgtagctg gttgnccaag atagaatctt 360
aagttaactt taaatttgcc acagaacctt tctaaatccc ttggaaatth aactggtagt 420
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3316

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aatccaatga gtagaaatgt tgggtactcca tttatggctg tcaacctgcc agttctcagg 180
agtttgtata aaagcctaaa tccgaaagg nctaatacca ttngggcccct tgtntccttt 240
tctgttgccct ttgcccactg gctntggaaa caggggtctt tctttctcct nggctatctt 300
tggatatggg gctccgtctt ntgtgccanc tnaggggaatn cttttcaggc atggntaagg 360
cattaaaaag cttcagtttc agtaacattt tgagtgaagta ctctctgaag cttcgttgga 420
anttaggttn tttgcttgaa ggtaactttt nggctaataag tttttatcct aggttttggt 480
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<212> DNA

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 tnagtgaagg ggccggggct gcctggtgga ggggccccgn tcgcggcgag ccactccat 180
 ctgaattcgn atctttntcc ccggcaggag ctgaagaaga agctgttcaa acgccggcgg 240
 gtgttgaaac gggagcggcg tctnaggcac cgggtggtcg gggctgtnat agaccaaggg 300
 ctgattcagg nggcaccanc tcaagaagcg ggcgttccat tgcaagtggc caaanttaac 360
 attntcaagg aagaagnncc gaaaattctt ccagcaattc cgntttnncc agaaagnncc 420
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3322

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agaagaanta ctaagtctct agtgatgaga ganatgtaaa tnaaaatgaa acatgtningg 180
nnntcaagtt gtcacaagtt agacaatcat atccaatatt ttanagggt gtnagactgt 240
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3323

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aggcctctgt gcaggggtgg tgtggcctgg aattgtgagt gggagctcag atgggatgaa 180
gagggcagcc ccacgggtgg agcacatgga gggatgatgag tgcagngctg aggctgaggg 240
aggggctgca gaatcatagg gaccggtgac agagaagggg ctgggttagat gantaggtag 300
taaggatnat gggagcctgg cttcccagtg gcagacagag atgttggatt tgatttcaag 360
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aggaaccaaaa ggaggaaaat gggttgcaga aaacgaagac aaaacagtcg aatagagcaa 180
agtgtttggc caaaagaaaa attgcacaga tgacagaaga agaacagttt gctctggctc 240
tcaaaatgag tgagcaggaa gctagggagg tgaacagcca ngangangaa gaagaggagc 300
tnttgaggaa agccattgct tgaaagcctg aatagttgcc cggccttctg atgctttcgg 360
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3325

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ccgcctggat gcagatngcc ggagaggacc ggcggctcgg aggaagcccc caccgtgggc 180
agggagcagn cggccagncc nttngcccca ggacctggnt gccatacttt cctgtatagt 240
ttcacgnntc atgttaattn ctcangnaat tnaaaaangna ggncaaaaaga gntgttattt 300
ttttttaaaaa gtttttaaaa acagganagt nctngttngn tgtacatttt aaactngtnc 360
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3329

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accttctccc cgtcactgtc cgcacatgg ccctacttac cctaangacg tgggcctcat 180
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3330

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3331

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ttggattgga ttaattccaa attctgcttg cttgctntnt aatttanata tgggttaaaca 180
cttacacnta atgcacaaaa tgtatgggta taataatggt tacatggaca tgatctactt 240
tataagtcta ctttgantgc nntctccata ttatgatgta tctaaacaag ttgctccaca 300
ggttactcta nnaaggctgg cccttagaag tnggggacca naagattctc ttgnccaaac 360
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cctactgcaa atattttcat atgggaggat ggttttctct tcatgtaagt ccttggaatt 180
gattctaagg tgatgttctt agcactttaa ttctgtcaa attttttggt ctccccttct 240
gccatcttaa atgtaagctg aaactgggtct actgtgtctc tagggtnaag ccaaaanaac 300
aaaaaaaaatt ttactacttt tgaaaatngc cccaangttg caaaattata taattctaac 360
ccttaaatca nttnaaangg ttggctgctt ttcaaccttg gccnctgtg aattccnacc 420
caaggaagaa ccctggaaca aaa 443

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3334

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tttaatgtca tgggcatttt tagtagcata gaccctttgt tctgcatttg aatgtttcgt 180
atatttttgt ttcacagtta atcttccctc cccaagtttg ctattcaa at caactgcctg 240
aatgacattt cctagtaatt ctgaagttat tttcctgaag gaatan ttgg tgaatnccna 300
tgcaggtttt ttccatacca atanccccc ccccgga aaaaccna aacccccctt 360

3335

antaaaaaaaa ccgncncttt ttttggggga aaaaattccc ccaaaagggg gaaaaaaaaa 420
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 ttaatgatcg ttctgggtca gcttgaatgt cccatttcta taaattcaac acttatatttc 180
 tgaattcata aaaataacca aaaaatgtga gctataatgt ttccctcaag aacaaacaga 240
 aacganattt gccaaaaact aaaattcnac aaatgatttt tantgggana ttgggctttg 300
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3336

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3337

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agtaaaagat aaccttttctt tctgaaatag tcaaatacga aattagaaaa gccctcccta 180
ttttaactac ctcaactggg ctgaaacaca gattgtattc tatgaatccc agaaagatga 240
aaaaaatttt atacgtttga taaaacttat aaatttcatt gattaatctc ctggaaaana 300
ttggtttaaa aaagaaaant gttaatggca agaattttaa aaaatatttt nttaanncac 360
aattatttta ttattnggaa tatccaactg gcttttttaa aanggtggcc cccccctttt 420
ttcccttgng tccnttgggc tnggtcaaaa aattccct 458

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3338

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<222> (341)

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<220>

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<222> (357)

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<220>

<221> misc feature

<222> (359)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (424)

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<400> 3706

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gacgagtcca tcacctgcaa cttaaagtga caagcttaca tcccattttg agtgaagatt 60
ttgaggtttt taattttaag gctgtgtaca gttatacttt ttatacacc tgttcatttc 120
tacttaaaatt atggcacaga ttgatgcgca ccagtcttga ggaaacgatc tccctattcc 180
cttaccctgt tactcancca cgccgtgtgt tagcttagcc tcaggtggcn agatgtttga 240
ggaaaaggaa ttatgccagg aaagtgggga ccgggtttat ggtcnggggt tcctattggg 300
aatgctcttt gttgcttttt ggcatcctn aatggaaact nttacattag aaccttnang 360
ttggaactcc ccccaaaatc cgcccatatt tttaaaaatt tattttccac tcctattcct 420
tgcntttaaa acttggttact cctttttttg caaaatttta accaattttt 470

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<210> 3707

<211> 296

<212> DNA

<213> Homo sapiens

<220>

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<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (7)

3339

<223> n equals a,t,g, or c

<220>

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<222> (9)

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<222> (57)

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<222> (270)

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<222> (276)

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<220>

<221> misc feature

<222> (292)

<223> n equals a,t,g, or c

<400> 3707

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gngngngngng ggtccggaat tcccgggtcg acccagcgt ccgagtaa atctcatanaag 60
cacatgaaga acagcagtga aaccaaggat tctagcaagg ccagctatta gcaaagcagt 120
aagcaggaac tggactagat accaaatgat ggggaaacag actcatagac ctaagaacat 180
agaagaaaga natgttgaca tcaacagaaa ggcaaaagg gcaatgcagc atctcttgcc 240
ttctccttgg gtttttcccc cttaaattgn tttgangatt aaccnccaan cnacac 296

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<210> 3708

<211> 333

3340

<212> DNA

<213> Homo sapiens

<220>

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<220>

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<222> (290)

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<220>

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<222> (291)

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<220>

<221> misc feature

<222> (311)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (333)

<223> n equals a,t,g, or c

<400> 3708

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cttgtcttta gctctggaga aagttgagtc ttttttttag tctataaaaa tcagtgtcta 120
tataaatggt gttcaggctt ccaatataac agatggttgg ggtttctaga gcaaagggtt 180
tttggatttc tcttttttct aggttaatgc ttacgtcca gttctttctt cattatttag 240
aaaagcctta attttttttt ttttttttaa aaaaagcncc gggcattttt nctaacaaaa 300
aaaaaatttt nttaaaaaaa aaaaccccca tan 333
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<210> 3709

<211> 348

<212> DNA

<213> Homo sapiens

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<222> (67)

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<220>

<221> misc feature

<222> (299)

<223> n equals a,t,g, or c

3341

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<222> (323)
<223> n equals a,t,g, or c

<220>
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<222> (327)
<223> n equals a,t,g, or c

<220>
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<222> (340)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (341)
<223> n equals a,t,g, or c

<400> 3709
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atagtanaat ttataccatt tttgctgcag agaatggcta cagatggagg ctggaaacct 120
gctgttaatc tctagaacac ttccccacac cagtgtgccca cacattagat actttattaa 180
gaaaatcact tcagtaaata tttgaaaaat tatttcctag atctcttctt tttttccttc 240
cccaataaac tttggttgca cacaaaaact gttactgaac cctatgaatc tagaacttna 300
cttccaagga aaaccaatta ctnaatnttt tcccctgaan ngaaattg 348

<210> 3710
<211> 439
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (7)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (41)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (62)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (98)

3342

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (121)

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<220>

<221> misc feature

<222> (133)

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<220>

<221> misc feature

<222> (158)

<223> n equals a,t,g, or c

<220>

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<222> (181)

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<220>

<221> misc feature

<222> (257)

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<220>

<221> misc feature

<222> (266)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (282)

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<220>

<221> misc feature

<222> (293)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (296)

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<220>

<221> misc feature

<222> (301)

<223> n equals a,t,g, or c

3343

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<220>
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 <222> (334)
 <223> n equals a,t,g, or c

<220>
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 <222> (369)
 <223> n equals a,t,g, or c

<220>
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 <222> (392)
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<220>
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<220>
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<220>
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 <222> (425)
 <223> n equals a,t,g, or c

<400> 3710
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 angccatgat gctgcgggca gctgtgctcc gcaaccanac ccatgtcaag tccccgcca 120
 naaaaaggac canggggaac ttactccacc aacaccantc ccggatgaac accaacatgt 180
 naagggtgaa cttggcctcc aagacatctg caccctctcc ccacctccac ggaactcgga 240
 actccaggcg ctcaatnctg cctgcngcca cttaaagggcc tngccatggt ttncnccca 300
 ncctnttttc ctccctgggg cttaagaagc agcngttcta tttttgcctt cctggaaaga 360
 aaagctcang ctccaccttt tgtttctttc cnggaacaan tgtcgcncca gccatggaca 420
 ttccnaacct cttccctc 439

<210> 3711
 <211> 484
 <212> DNA
 <213> Homo sapiens

3344

<220>
<221> misc feature
<222> (41)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (307)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (342)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (364)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (374)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (381)
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<220>
<221> misc feature
<222> (384)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (395)
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<220>
<221> misc feature
<222> (410)
<223> n equals a,t,g, or c

<220>
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<222> (413)
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<220>

3345

<221> misc feature
<222> (446)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (462)
<223> n equals a,t,g, or c

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ggccattcgt tacatctgtc ttagttgaaa agcatatttt ttattaaatt aattctgatt 120
gtatttgaaa ttattattca attcacttat ggcagaggaa tatcaatcct aatgacttct 180
aaaaatgtaa ctaattgaat cattatctta catttactgt ttaataagca tattttgaaa 240
atgtatggct agagtgtcat aataaaatgg tatatctttc ctttagtaat tacattaaaa 300
ttagtctntgt tttggaatta attaagttcc ttttgggata angttggggg taatgtgggc 360
catnccccctt aaanaaatcc nacnggttaa tatanccatt ttttattaan ggncccccttg 420
gccaataaat taaccctgaa aacctncccc cgaaaaaaac cnaaacttaa tcccccccca 480
aatg 484

<210> 3712
<211> 285
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (278)
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<220>
<221> misc feature
<222> (279)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (281)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (284)
<223> n equals a,t,g, or c

<220>
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<222> (285)
<223> n equals a,t,g, or c

<400> 3712

3346

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tgcataagtt aacttccaat ttacatactc tgcttagaat ttgggggaaa atttagaaat 120
ataattgaca ggattattgg aaatttggtta taatgaatga aacattttgt catataagat 180
tcatatttac ttcttataca tttgataaag taaggcatgg ttgtgggttaa tctgggttat 240
ttttgttcca caagttaa ataatcataaa acttgaanna naann 285
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<210> 3713

<211> 385

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (87)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (235)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (246)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (267)

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<220>

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<222> (273)

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<220>

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<222> (280)

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<220>

<221> misc feature

<222> (320)

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<220>

<221> misc feature

<222> (332)

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3347

<220>
<221> misc feature
<222> (335)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (341)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (349)
<223> n equals a,t,g, or c

<400> 3713
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ggcacttgct gaggtcacgg cggccanact ggagcccaga actctgtctg cacctaagca 120
cagtgtccct tacctccagc atctgagtcc catcgtctaa tgtggcttta acctcaggat 180
cgggcctaatt tctagaatcc tacctgcaag acaagcactg agactgaaac aggangattc 240
cttganttcc aggaatttca aatccancct gancaacatn gtgaaaaccc catctctgca 300
aaaaaaaaatga aaaattactn ggctgggggg tncnttctct nttaaatacnc ttcccgggaa 360
gggtaagttt ttaaaaaatcc cctaa 385

<210> 3714
<211> 387
<212> DNA
<213> Homo sapiens

<220>
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<222> (2)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (293)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (320)
<223> n equals a,t,g, or c

<220>
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<222> (352)
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<220>
<221> misc feature

3348

<222> (373)

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<220>

<221> misc feature

<222> (387)

<223> n equals a,t,g, or c

<400> 3714

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aaccactgct tggtagagta ttacaagatg tgtactatta aaaactcatc tttttcttca 120
gtgaatgtat attgagcatt tactgtttga aaatgcgttg ggtagcaagg ggagtctaca 180
ggggatatga gcctaataccg atacagagtc tgccttcagg gagttcacag cctcatgagg 240
aatagaaatt tctcactggt ccctaaaact ctcaaata aggtcttgca gantgtccct 300
tgcacatgtt ttccttcctn aattacaaga aatagcatgg aaaaaaatg cnttatgttg 360
actatagatt tanatataga atccccn 387
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<210> 3715

<211> 84

<212> DNA

<213> Homo sapiens

<220>

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<222> (40)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (41)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (55)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (57)

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<220>

<221> misc feature

<222> (81)

<223> n equals a,t,g, or c

<400> 3715

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agagatgacc atgtgtatcc ncct 84
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3349

<210> 3716
<211> 109
<212> DNA
<213> Homo sapiens

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<222> (6)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (23)
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<220>
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<222> (70)
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<220>
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<222> (86)
<223> n equals a,t,g, or c

<220>
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<222> (91)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (103)
<223> n equals a,t,g, or c

<400> 3716
ttaaanttaa tttgagacat ctnattttcc ctctaaaaaa atgaagaaat ttttggatgg 60
tcccatcccn cctccccctc cccagnnggc nctctaaaga atngaagct 109

<210> 3717
<211> 111
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c

<220>
<221> misc feature

3350

<222> (33)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (61)
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<220>
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<222> (70)
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<220>
<221> misc feature
<222> (87)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (108)
<223> n equals a,t,g, or c

<400> 3717
aaccnaacg ccagcaggaa ccggtccgga aancccggt cgaccacgc gtccgatttt 60
ngagtttttn tgatgccaat atcaacnggg ggatttttaa aaattgtnaa a 111

<210> 3718
<211> 155
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (140)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (142)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (145)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (152)
<223> n equals a,t,g, or c

3351

<220>
<221> misc feature
<222> (154)
<223> n equals a,t,g, or c

<400> 3718
gctcaaattc agccagctcc agctgcccct ggcacagagg agctgactga ggctccagta 60
cagggcctgc tccttcccct cctgttcccc tcagtgtgcc ctgggccggg ggccaggcat 120
ggtgggggtg gggaggctgn cngcngaggc cnang 155

<210> 3719
<211> 381
<212> DNA
<213> Homo sapiens

<220>
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<222> (6)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (23)
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<220>
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<220>
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<220>
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<222> (45)
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<220>
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<222> (336)
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<220>
<221> misc feature
<222> (347)
<223> n equals a,t,g, or c

3352

<220>
<221> misc feature
<222> (358)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (360)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (368)
<223> n equals a,t,g, or c

<400> 3719
ctttntnttaa caaaactcaa ccncattagg ggggaaaang cntgngttac cgccctgggc 60
caggggttacc cgggtcccgg ggaaatttcc cgggggtcgg gaccacgcg tccgcccacg 120
cgtccggggg aagaacattt tgcttatggt ttaaagggtat gtattggggg aagaggagca 180
ttatatatgg gaacctctca caaacagggt gattattttc ttattatact caattttcac 240
cctgaataga gtgttttgat tatgtaagtt agatcgtaag tagatggctc tcttaaagac 300
attttatggg tttgttggtg ttgtttgttt ttcgantcta ttaaatnaaa ggtcacantn 360
ggagtagncg atacagagaa t 381

<210> 3720
<211> 106
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (25)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (28)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (44)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (63)
<223> n equals a,t,g, or c

<220>
<221> misc feature

3353

<222> (76)

<223> n equals a,t,g, or c

<400> 3720

gccgaacgca ggagaaccga tccgnatncc cggtcaccca cgcntccata aattacatgt 60
ctntgaaatt tcatnngggg cactaataaa attttcagac cctaatt 106

<210> 3721

<211> 236

<212> DNA

<213> Homo sapiens

<220>

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<222> (17)

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<220>

<221> misc feature

<222> (21)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (28)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (40)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (55)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (123)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (172)

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<220>

<221> misc feature

<222> (219)

<223> n equals a,t,g, or c

3354

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<221> misc feature
<222> (221)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (224)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (227)
<223> n equals a,t,g, or c

<400> 3721
tcgacccgta cagatgntgg ncagaagnat cccttaaata aattgtctta tcacntggtg 60
tgtattaagg aatctgacat ccacaccggt caacagtttg cagctaaatt caaaaaactc 120
tgntgccagg aaattcagca cattctctgc acacgaaacc tttgcaccaa angagagtta 180
tgactatctc aagacttctg gcttggcgat gttcatatng ngangangga gacttt 236

<210> 3722
<211> 137
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (69)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (87)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (108)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (117)
<223> n equals a,t,g, or c

3355

<220>
<221> misc feature
<222> (136)
<223> n equals a,t,g, or c

<400> 3722
cttttntttt acggaacttc acctcattag ggggaaaaaa ggctggggtt accggccctt 60
ggccagggnt taccggggtt cccgggnaat ttcccggggg tccgaacncc acgtcgntct 120
cggaaaaaaa aaaant 137

<210> 3723
<211> 486
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (446)
<223> n equals a,t,g, or c

<220>
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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (472)
<223> n equals a,t,g, or c

<220>
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<222> (481)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (484)
<223> n equals a,t,g, or c

<400> 3723
ggtggagacc tgggagagag tgtaggaag accgaaaagg gcaggacggg gcctccactg 60
cctcccattc ctgggtccggg cccacatagc cttctttgtc acaatcagct caggtatcca 120
agatcagatt acccacattc attatttgag caactattca ttgaacagtt agaatatgtc 180
tactctgtc agttgctggc tagaagtaga aagtaccaga tgagtgaat aattggccac 240
tatccttggg agctgatgac taagtaagag agagatgcaa gacaacatgt ggaaaatgcc 300
aaactgagta gcagtcacag ttgacatgct gcagagagag ctggccgggg gtcagaagac 360
ctgggcacca gtcctgttca tttccagtgt ggcctcgagt cattcacctg acctcctgaa 420
gttcattttc ccaagaagtt gtttantcca actgnccatc aaggatcttt anggaccctt 480
ntanct 486

3356

<210> 3724

<211> 99

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (24)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (26)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (45)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (48)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (51)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (72)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (96)

<223> n equals a,t,g, or c

<400> 3724

agncgaagag gcggaagaa aaancnaggg agaagccagg taccnccntg naggaaacgc 60
ggtcgcggaa ancccgggtc gaccacgcg tcccantca 99

<210> 3725

3357

<211> 441
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (384)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (405)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (411)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (424)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (437)
 <223> n equals a,t,g, or c

<400> 3725
 ggtacccagt ggtggaagac caacacacac ctccgcagac agcccagcac gccagaaacg 60
 gccacccgca ggccctgccca gccgctcacg aggctgtcta cagggagggc aagcccagca 120
 ccccgagagtc ctgcgtctcc tcttcatcag ccatcatcgc caagccagga gagtggctcc 180
 caagaggacg ccaggaagag cctcgcccag cccccacggg gacccccgc cagccaaggg 240
 aggcgccccca ggaccagggc aatggagtga ccaccaggta agggggatat cacaaggcct 300
 tgaacctgac tcttggagct ctgggagtgg gccgccccac gccggatgca agagcaccca 360
 ggagacctgg aaagcttctc tgangcccaa cctttgacag gggangctaa ngagcagtgt 420
 caanattccc agcggantgc a 441

<210> 3726
 <211> 294
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (35)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature

3358

<222> (36)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (78)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (261)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (287)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (289)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (290)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (292)
<223> n equals a,t,g, or c

<400> 3726
ggaatttctt ctggctcaga aatttcccct gtaannacaa tatccatttt ttttattatg 60
gaagtagagt agcaaagngc aatttgcttt ataggaattg tttttatagg caaggatgaa 120
tttattccag agagcataga atatctattg ggttacttaa tattactcat tttgggtaca 180
gagccatttg cagcccattg tacttcagga aacagctgag aaaatgattt gtgtgtaaga 240
aggatgtttc ccattcaatt nccatgggtg tgggaggagg ggctttncnn gngg 294

<210> 3727
<211> 402
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c

<220>

3359

<221> misc feature
<222> (196)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (220)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (221)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (224)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (238)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (239)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (258)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (264)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (267)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (277)
<223> n equals a,t,g, or c

<220>
<221> misc feature

3360

<222> (292)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (311)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (334)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (348)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (380)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (391)
<223> n equals a,t,g, or c

<400> 3727
ggtanatatt tttatcacat taagaaagtt tccttctatt attagtttgc tgatatgttt 60
tcttatgtga atgtatatca aatataatca gatacttttt ctgtgttcta tgaacatatt 120
catgtaattt tttctgttaa tgtgatgaat tgtattgatt aaattttgaa tgttacaaaa 180
aagccatagc aataantccc ttctaattctt tatagcttcn ntntttcctt cttgcctnnt 240
tgcaactggc ggtaccgnta cggngtnaaa tagaagnggg aataatggac antcttgact 300
tgttcccaat ntcattggga aagctttttaa tatncatcat taagtaanat tattgctatg 360
gcttttttgg aaatattttt atcacattaa naaagggttc tt 402

<210> 3728
<211> 104
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (14)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (43)
<223> n equals a,t,g, or c

3361

<220>
 <221> misc feature
 <222> (53)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (63)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (75)
 <223> n equals a,t,g, or c

<400> 3728
 tgcagcatgc tatngacaac atgaatgatt ctgagctctt ggnactatac aantggcgat 60
 aancgtggtca aacgnaatga gaattaaggg aaatgcatgt acat 104

<210> 3729
 <211> 270
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (233)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (253)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (259)
 <223> n equals a,t,g, or c

<400> 3729
 ggtgtaagga agacatttgc ggtgcttctt gtcctataat gattcaagta tatagtagtt 60
 cttgaaagag tgtgcatata ttactcatct gcttaagaga gtgggttaat ggatatatca 120
 gaggagccaa atacattttt ttcagaactt gaaaacccaaa ggcatcatg agtgactca 180
 aaagttagga caagtttatt acatttggga ttttcatctg tagccgtatg aanaaccctt 240
 tccaatataa aancatggna ttaaattagc 270

<210> 3730
 <211> 62
 <212> DNA
 <213> Homo sapiens

3362

<220>
<221> misc feature
<222> (18)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (20)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (46)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (48)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (59)
<223> n equals a,t,g, or c

<400> 3730
gaaaactgtg gaatgtangn aaaccatact gcctaggttc ctttgnantc atctgaaang 60
ga 62

<210> 3731
<211> 53
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (22)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (30)
<223> n equals a,t,g, or c

<220>

3363

<221> misc feature
 <222> (43)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (50)
 <223> n equals a,t,g, or c

<400> 3731
 ggacacatnt tcgaaacact anaaaacaan aaatactacc gtnaataaan aaa 53

<210> 3732
 <211> 247
 <212> DNA
 <213> Homo sapiens

<400> 3732
 ggagtgggtt aggaggggcc ctcggggagg gaagaacaag gagagagggga agtgagagga 60
 aaggaggttt ctcccttcac taaatcccaa gtatacaccc ttctaagggtc tggttctggcc 120
 ctcccttagg gagtgccttc ccctctacct gccagggtccc atagataagg atgtcctccc 180
 ctgcaggcgc ctggcctcca tcacagcatg cccactcttg tgcccgtgc aacctcctct 240
 gactctt 247

<210> 3733
 <211> 247
 <212> DNA
 <213> Homo sapiens

<400> 3733
 ggtgagatca gctccttaaa tggggatttg aaaacattag ggcttcatta tgtacacaac 60
 ggcagtgcct cattcatcat gcaaaaatca ctcccgttat taaaaatccc tgtggcagct 120
 gcatgccggg gcttggtggc atcgtgcctg ctggggacag agcaggagct ccacagccct 180
 gcctggtcaa agttgtggcc acgggacagg ggccccaagt cccagcctcc ctcttacaca 240
 ggggccg 247

<210> 3734
 <211> 368
 <212> DNA
 <213> Homo sapiens

<400> 3734
 ggtcctgtta gagaggagaa agactgtaat gaaactacta gaccatttg ggctaaagtt 60
 tggcttttcc ttctttgagt catagaacat atccatctcc caggaaatgt ccttctctgg 120
 cgtctgcttg cccttctgag tctgcctttt ttgcaactgaa cataagcact ttataactaat 180
 gggtcacaaa tcttgacagc cttaattttg gataagacca gattttcctg acatttttct 240
 ttaacttaat ggaactatca aattataggg caccactgac tagactgata tgagatgagg 300
 ctaaaagcct ttgaacacca cgctgtagtc tccaacagaa aaacaccacc aaaacagata 360
 cccatgtt 368

<210> 3735

3364

<211> 99
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (22)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (26)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (37)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (39)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (44)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (62)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (68)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (88)
<223> n equals a,t,g, or c

<400> 3735
aaaaggggcc gtagtagccg angatnatac acggacntnt atanggggaa tgattggtcc 60
tncctgcngg tactcgggtcc gttaattncc gggtcgacc 99

<210> 3736
<211> 278
<212> DNA

3365

<213> Homo sapiens

<220>

<221> misc feature

<222> (243)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (257)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (270)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (275)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (278)

<223> n equals a,t,g, or c

<400> 3736

gccgggtttc	tccaggccct	tggcctggat	ggggatgggg	tcataggtct	gcacagagca	60
ggcgtagacc	cggctttctg	ggcagtgtgc	tgagttctca	gttcctggcc	ctgtgtacgc	120
tgaaaccttc	cctggtggtg	gagctggcaa	gagacctgct	ggagttcctg	ggcagcgtga	180
atggtctctg	cagcagggcg	agcctcgtca	ccagcgtggg	gtgggccatc	ggcgagtcct	240
gtngggacct	acgatacngga	ggtgcacccn	tgganccn			278

<210> 3737

<211> 303

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (264)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (298)

<223> n equals a,t,g, or c

<220>

<221> misc feature

3366

<222> (301)

<223> n equals a,t,g, or c

<400> 3737

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aagttgaggg agctcatatc caggcaggag ccgagcaagg tgccctctac agacctctgc 60
tgtatatggc tgtgaatatg ttgctgttct tggttcctgt gaattcgtga ttctggatgt 120
tctacattgt cctagaggcc ccaaaaagga tgggaagagg agcccatctg ccctgggtgct 180
gaacatgtag ggatcgtggc taccaccacc ttcagctacc agcagatttg cagttcctct 240
cttccttaaa ttccttgtgt gcanacaaaa ataaaatctt cttcctctga tgaaaaanaa 300
naa 303
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<210> 3738

<211> 444

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (253)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (259)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (270)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (332)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (397)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (402)

<223> n equals a,t,g, or c

<400> 3738

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gtaaaataaa aagcctcctg tttccccatc ccacttcatg aaggtaatga ctataacatt 60
tcttatgtgt actttcagat taattttact tattttaatag catatgtcct taaaatattt 120
tcgacaaata ggattatcat tctcatacta ttatcgttct catactgcat cctccttttt 180
ttgcttcatg atttttctta gaaatttttg ataaccagca tatacagatt ttacatttct 240
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3367

cttagcaacc agnatagtna cctagcccn tgtttgacag aatgtttaaa attgtgttta 300
ttattttttc ttgtcacaaa ataatgctgc antggatttg tatatatatc tttatattct 360
tgaaatggac ttagtaagtc agaggctttg tgaattntca gntttggtag attttaccat 420
attgccctcc taaaaggtta tacc 444

<210> 3739

<211> 50

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (13)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (14)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (37)

<223> n equals a,t,g, or c

<400> 3739

gcccacgcnt ccnccacgc gtccgaaaaa aaaaaanagg ggaattttaa 50

<210> 3740

<211> 112

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (46)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (68)

3368

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (74)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (93)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (104)

<223> n equals a,t,g, or c

<400> 3740

ccaanaaaga aagcgaacgc ccgaggaccg accggaaaac ccgggncgac ccacgcgccc 60
gttttcantt aacncaagta cgtttaattg ggnacagagg aagntaaaag aa 112

<210> 3741

<211> 225

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (188)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (197)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (203)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (213)

<223> n equals a,t,g, or c

3369

<220>
<221> misc feature
<222> (218)
<223> n equals a,t,g, or c

<400> 3741
gnagaagtct gagatgagaa aaaaatgata taatatccac ctactacata gtgggtagtt 60
tatatactaa agttattggt atgagaaaga atggcttagg aatattattt aaaattaatt 120
aaggggggtgt taaaaataaa ataccaagtg taaaaatgac aaaggcaaga agaaacagta 180
tataatgnga gtaaatntta atntttccaa ganagganac agtac 225

<210> 3742
<211> 204
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (51)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (90)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (138)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (151)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (180)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (195)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (202)
<223> n equals a,t,g, or c

3370

<400> 3742
gttttagattc tgcctgtgtg gtcatttttaa aacatgtgtg acatatatca ntaccttcat 60
tcttctatat tttgtgtctc ctccaacctn caactttttt tgttttttga aaaatgattc 120
tctaacacct caacagtnta aggtaattta ntacacatat atcagtattt ttgtgatctn 180
aaaaagcaac ccatnttcta antt 204

<210> 3743
<211> 201
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (11)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (13)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (28)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (32)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (38)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (81)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (92)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (121)
<223> n equals a,t,g, or c

3371

<220>
<221> misc feature
<222> (131)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (163)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (168)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (184)
<223> n equals a,t,g, or c

<400> 3743
agtggaaaac ncnactatag ggtttagntg gnacgccngc aggtaccggt ccggaattcc 60
cgggtcgacc caccggttcg nccacgcgtt tngggagcat ctactggtgc aggcagacaa 120
nccaaatata naaggaaaag gtggaaatga acgcccaggc gtncaaanct ctattcttaa 180
ccanttatgc taaaggcaag a 201

<210> 3744
<211> 50
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (28)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (29)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (33)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (38)
<223> n equals a,t,g, or c

3372

<400> 3744
gctgcaatgt tacctgaggc ttcatttnnc ttneccancc gtgccaccat 50

<210> 3745
<211> 63
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (14)
<223> n equals a,t,g, or c

<400> 3745
tttggaatgc ctgntggaac gtccgcaggt accggtccgg aattccccggg tcgacccacg 60
cga 63

<210> 3746
<211> 355
<212> DNA
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3373

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<220>
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tcnggacctg aaactgatcc acaggcatatc agncaataaa tgagctttca atgaaagcag 120
gtcaatagaa gaaaataaat natttcaatt aatggacttt catatggagg tgggggagac 180
caacaatgnt attntccctc acactacata caaaagtaat tggagggtgca ntatacacca 240
aaacttaaaa gttaaagata taaagnattt caaggatact ctgtaggnaa agattagnct 300
accaacaagg aggacactga aaaatattat aanaagacat gataaattag acttn 355

<210> 3747
<211> 281

3374

<212> DNA
<213> Homo sapiens

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3375

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<222> (275)

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<222> (280)

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<400> 3747

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cactatatgg aaagntggta cgcctgcagg taccggggccg gaattcccgg gtcgaccac 120
gcgtccgctt ccattatccn taaatattga taaactccca ggcnccaaag aaaacattgg 180
cttaattgtc tgaaaagaaa caagagaaaa acactgggtat ttttatgtct gtattcaata 240
tggataaaaa tataaaaant atattttaac ntanngaaan a 281
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<210> 3748

<211> 67

<212> DNA

<213> Homo sapiens

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<220>

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<222> (66)

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<400> 3748

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ggaaaaaatt agagtgttca aagcaggccc gagggggcgc tcgagaggna aggnntggtn 60
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3376

tgccgng

67

<210> 3749

<211> 475

<212> DNA

<213> Homo sapiens

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<400> 3749

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tcatgctccc tgtacgccac tgtctcttag atataattat cccaccctc tgctcatttg 120
tttcccagat tcaatacatt gtcaaagcct cttgggtcctt ttttaacatc tcacacttgt 180
gtcattctct ccatteccat aaacctcaac aactgctcaa agtcctgctt gacccttgt 240
tgccagtctt tgaaatcttt cttgcatatg actgcctcat taccttccta aaatctagtt 300
cactcgcta ctcaagaana cacaggggcc tactgtggtg tattagataa gttcacattt 360
cttctcttta ctaatctttt tacttctttt accancactt cccttatata aattccatca 420
ttctaattag aatctggttt cccctacaca ttcctgncn tctttcacnc ccana 475

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<210> 3750

<211> 104

<212> DNA

<213> Homo sapiens

3377

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<220>
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aagaccncgg ccnaccacg ttttcnaacc atttaaaacc aaag 104

<210> 3751
<211> 103
<212> DNA
<213> Homo sapiens

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3378

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<220>
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<222> (73)
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<400> 3751
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aagacaccag acngaagcaa acagctgcgc atccaaacca aca 103

<210> 3752
<211> 112
<212> DNA
<213> Homo sapiens

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<400> 3752
ganttccccg ttcgattcac gnttccgaca cgcggcagcc cncgggagag ctggggtcagg 60
nccggaaaag ccacacctga anctgaggct ggaagcccac gacntcctga tg 112

3379

<210> 3753

<211> 116

<212> DNA

<213> Homo sapiens

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<220>

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ctcgccacgt tcgccggctt tccccgnaag ctttaaaccg ggggctccct taangg 116

<210> 3754

<211> 144

<212> DNA

<213> Homo sapiens

<220>

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<220>

3380

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<220>
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naaacacagc gccacttcac aactanana atgtgggaga ccnaatatct gagttaggna 120
agaatttaaa aaaacacata aggg 144

<210> 3755
<211> 123
<212> DNA
<213> Homo sapiens

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<220>
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3381

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<400> 3755
tgaccagnng nggcaactgt gangccccggg ccggtgagga ggaggagccg cagccnnggag 60
agaaggtcag cgccggcggg agcgntctggg cctccgcct ccgtcctcac gnggcccna 120
cna 123

<210> 3756
<211> 655
<212> DNA
<213> Homo sapiens

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<220>
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<222> (55)

3382

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (61)

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<220>

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<222> (651)

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nctttgttgt gngtgcccct tgaggcgttc atncagcact gtttcagaga aatccctatt 120
tcaatctatt cctatacgtt agttattgaa aagcaataga caatcacaaa aaacaagttg 180

3383

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acctttttgt gttccttgag ccaaagggcc ctcatgactg ggccctcacac cgaataactc 240
gttacaaaaa gagctaggggt cccagactgc gccaaaagct tcaggagact gtcctctgctc 300
tgtgcacana tgagtggcca actctggagc ccagggtgtt gcttcctagt ctgggtggtga 360
atccttcata gtctgagggtg cttatttagc aaattcaacc ttaaacctga gtgcatggaa 420
actattgatg cagtgtccaa ggtggagaaa ggtcagagtg gatccagagg agccaagaga 480
agacgtccag catggtgacc tgggctcaag tcaaggctct tatttctctg atttctggtc 540
agaaaacaca tcttcaggaa aatcacccct gactcaccca ggctaagtna caagcttttg 600
gtataagggtc tcatcacacc atatgcctct ntttaaaanc aggnccctgca naaat      655
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<210> 3757

<211> 240

<212> DNA

<213> Homo sapiens

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3384

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<222> (230)

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<400> 3757

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atgaacatgg gattagtccc aagctngtag cttggaacgg tagcattttt gcctgcgtga 120
tccttgncag ctattcacag aaggaaatct tccgaaactc cgtctttcat ttagccggng 180
angctgttat ctttctntgc aattagcatt catgtgggtn tatcgctctn tccaactctg 240

<210> 3758

<211> 179

<212> DNA

<213> Homo sapiens

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<222> (42)

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<222> (50)

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<220>

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<222> (52)

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3385

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<220>

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<400> 3758

ccccagccag cctaagacta ngaatgtgga gcctgaagat cnaagatccn ancatgtaca 60
tngtatggaa atatgtgcat atttgtacat aaaatgatat tctgattgat aaataaacag 120
acaaaacttg aaaaaaanaa aaaatgcagn aatccnaagt aaatggncgc ctaactagn 179

<210> 3759

<211> 521

<212> DNA

<213> Homo sapiens

<220>

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<222> (59)

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<222> (71)

3386

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<222> (435)

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<220>

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<222> (501)

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<400> 3759

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aagtccatt ngcactgcag cgctgtttgc gtcctaaatg cgatattgta atgtttaata 120
tccagctatt atgtagcttt atctttttca gcttctaata ttttgttgct gtttaatttt 180
tttggcatgc cttttagtcg agttgtatat acgaagtcac agtaagaaaag ccaattctaa 240
gactcctaag gaatattatc ggttaaatta cagaaggcaa atcccctctt tangatggga 300
gaatggactt gaagggagga atgtggcaag ggtccctcag aagtgaggga gcccgctgtt 360
cctccttcag gcatttgcgg atggcactgg tgatcacaaa aaagcggaga ttacgctgcc 420
gggcgctcct gtggnagagg gactggaaca ctgncccatg ntgagtgaan aatgccatca 480
actttaccag gtgccccgta ncctaaagcc acgtccccac t 521

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<210> 3760

<211> 99

<212> DNA

<213> Homo sapiens

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3387

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<220>

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<222> (88)

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cgacccgnng cgctataccc gnttgantc aaaccccaa 99

<210> 3761

<211> 388

<212> DNA

<213> Homo sapiens

3388

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<220>

3389

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<222> (239)
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<220>
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<223> n equals a,t,g, or c

<220>
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<222> (290)
<223> n equals a,t,g, or c

<220>
<221> misc feature

3390

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<220>
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<222> (359)
<223> n equals a,t,g, or c

<220>
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<220>
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<222> (386)
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<400> 3761
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cttaatagtg gactcttgat ccaaactgga acaacactca accctatctc ggactatncn 120
tttgatntat aagggattct gccgatttcg gcctattggn taaaaaatga gctganttaa 180
caaaaatnta acgcgaattn taacaaaata ttaacgctta caatttaggt ggcacttnnc 240
ggggaaaagg tgcaccgaac ccnnatttg gngatanntc taaatacatn caaaaatgta 300
tcccgtcat ggagacaata accctgataa atgctncaat atattgaaaa aggaagagna 360
tgagcattca acactnccgg gcgccnta 388

<210> 3762
<211> 276
<212> DNA
<213> Homo sapiens

<220>
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3391

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3392

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agacaaataa aaacgttaag ngggaacaan tcacagagag ccacaaagcg gatttnacac 120
angccnagca naccanaact ctcggnagtg gctacaaggg aanaaaaggac tatgtggatc 180
cctgggggct atgcaaatac ctacctcaca agagttgttg taanaagact ggnnggtttgg 240
gnncaaacct tnggattaaa gagtttgcaa cgcatt 276

<210> 3763
<211> 382
<212> DNA
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3393

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<220>
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<222> (209)
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3394

<400> 3763

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tacgagcttc tgtaggctat ctgcataatg tgccattgt aggaaaagat tgggtncagc 120
agacaccgta agccatatag tactgtggtg cttagcaaga aggctttact tatctgtgga 180
tgttntcttc aaaagcagct tcaggtttnt agttggttca catgtccttt cagggtctatt 240
aacctgatag gtcnggctga ggcgggggca attnttatcc aggtataatg taccacacgt 300
ttaactcctg cccaatngat gaatgcntgg tcagaaggac ctcatagnng tcttaccctt 360
tgaggggctn gttngtgatt ca 382
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<210> 3764

<211> 411

<212> DNA

<213> Homo sapiens

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<220>

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<222> (14)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (33)

<223> n equals a,t,g, or c

<220>

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<222> (35)

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<220>

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<222> (52)

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<220>

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<222> (175)

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<220>

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<222> (286)

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<220>

<221> misc feature

3395

<222> (301)

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<220>

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<222> (303)

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<220>

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<222> (326)

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<220>

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<222> (381)

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<220>

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<222> (383)

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<220>

<221> misc feature

<222> (411)

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<400> 3764

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aaagcttacc cctgcccetca ctttgtgttt tttatttttc cccctttctc aagcaccacg 120
tatttggacc tgagaagtgg catagctgct aagttgactt ttaataaaaa actgnttgtg 180
cctgagggaa atatatgcct ttttaaaaaag tacctcagaa catgttccta gatcgtctca 240
tcggttttgt ttggtgggga ctgggaagtt cagcaggaag tattgnctgt gtgtgatgac 300
ngngcagtat tgccagtcgg caatgntgta ttttgcattc ttttatccct aactctgaat 360
ctaggactcc atgaaaagcc ngngtcaccc caaaacattc ttccaataca n 411

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<210> 3765

<211> 122

<212> DNA

<213> Homo sapiens

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<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

3396

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accaaggctg gcncttcag caccagccgc agcatcaggg ggcccgccca aancaaggca 120
ng 122

<210> 3766
<211> 357
<212> DNA
<213> Homo sapiens

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<222> (71)
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3397

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<220>
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<222> (109)
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<222> (183)
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<220>
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<222> (203)
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<220>
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<222> (223)
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<220>
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<222> (225)
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<220>
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<220>

3398

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<220>
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<220>
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<222> (245)
<223> n equals a,t,g, or c

<220>
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<222> (303)
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<220>
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<222> (312)
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<220>
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<220>
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<222> (341)
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<220>
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<222> (357)
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tttagaagaa ncctgngata atttacatgc canccataat ngaatctcng gtacatggca 120
catgcattcc agtatggaac actntctagc cctacccta tcctttaagg ctcaggggac 180
agntactatc actgtgaagc ctntcccgtgta acactctggt tangnnncaa tattgccacn 240
naaantggat gtctagggtg tgggggttcg ggggtcaatg cctcgttcca ctccagatat 300
tcnggcactt tnccatcatc cttcatagnc tccacataat ngggcagtca ataatgn 357

3399

<210> 3767

<211> 152

<212> DNA

<213> Homo sapiens

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<222> (10)

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<220>

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<222> (20)

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<220>

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<222> (30)

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<220>

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<222> (112)

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<220>

<221> misc feature

<222> (116)

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<222> (136)

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3400

<400> 3767

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gcaggggtaa ccccggggtc cccgggaatt ttccccgggg gttcgnaccc cnacgncggt 120
ccggcattta ttccannaat gattggaaaa gg 152

<210> 3768

<211> 134

<212> DNA

<213> Homo sapiens

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<220>

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<222> (15)

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<220>

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<220>

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<222> (119)

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<220>

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<222> (123)

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<400> 3768

3401

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atttttaaac cnggggcgga aaggggggct ggaggggnag atttttaaaa acgncgatnc 120
ccnggggccc aaaa 134

<210> 3769

<211> 159

<212> DNA

<213> Homo sapiens

<220>

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<222> (9)

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<222> (17)

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<222> (41)

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<222> (109)

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3402

<222> (139)

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<220>

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<222> (148)

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<400> 3769

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aaggggggggc cccaagggg ggttttctaa ggggaaaggc ccaaagggnc ctctccaaac 120
cnccaaattg gnggggggna aattgggngc gcggaaagg 159
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<210> 3770

<211> 553

<212> DNA

<213> Homo sapiens

<220>

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<220>

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<222> (523)

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<220>

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<222> (532)

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<220>

<221> misc feature

<222> (549)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (552)

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<400> 3770

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agtgagtgc tgtgcaatgt tttgtagcgg tcattttttt ttaagtatta acacaatcat 120
acttcctctt taaaaggagt aaaatgtgtt agaatggcta ctgctgctgt tagaatctgt 180
gaaaaaggga aagtcacctt tcacctaggg ggtcctgtgt gtttcttgga agagaggggc 240
ctagagtaag tacatgcccc ttctccaggg tgctttcaca tgtgtttgaa tccatccctt 300
gtcacttgtg atccaggctc aggtaatata aggtttcgtg gtatgccatc ccatgaccaa 360
aacttgtatt gctagaggcc acgaccagta ctgaaacact caagaatata ccagttcaa 420
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3403

tgctcagatt aacttttgat actggcatgg gcataagcat ctggtcctac ctctcctgcg 480
tcacctntca gctgtatcat agccactgcc aagaagtgt ccongtaacca cncttagctt 540
aaggagccna cnt 553

<210> 3771

<211> 76

<212> DNA

<213> Homo sapiens

<220>

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<220>

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<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (53)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (56)

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<220>

<221> misc feature

<222> (69)

<223> n equals a,t,g, or c

<400> 3771

gcccagtcnn gctaattcca gaaacttgtg gttttttcat agggctgtgc tgncantgac 60
tagcatggng caatga 76

<210> 3772

<211> 60

<212> DNA

<213> Homo sapiens

<220>

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<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (52)

3404

<223> n equals a,t,g, or c

<400> 3772

gctcacanat tattaagtat acctgaatct tggtttcttt ttataactga gnaataatgg 60

<210> 3773

<211> 480

<212> DNA

<213> Homo sapiens

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<221> misc feature

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<220>

<221> misc feature

<222> (460)

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<400> 3773

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cataagaatc atgcaagctt cctccctcag ccattgatgg aaagttcagc aagatcagca 120
acaaaaccaa gaaaaatgat ccttgcggtg tgaatatctg aaaagagaaa tttttcctac 180
aaaatctctt ggtcaagaa agttctagaa tttgaattga taaacatggt gggttggctg 240
agggttaagag tatatgagga accttttaaa cgacaacaat actgctagct ttcaggatga 300
tttttaaaaa atagattcaa atgtgttatc ctctctctga aacgcttcct ataactcgag 360
tttatagggg aagaaaaagc tattgnntac aattatatca ccattaaggc aactgctaca 420
ccctgctttg tattctgggc taagattcat taaaaactan ctgctcttaa cttgaaaaaa 480

<210> 3774

<211> 100

<212> DNA

<213> Homo sapiens

<220>

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<222> (8)

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<220>

<221> misc feature

<222> (17)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (33)

<223> n equals a,t,g, or c

<220>

3405

<221> misc feature
<222> (49)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (89)
<223> n equals a,t,g, or c

<400> 3774
gaaccccgga ggagggngag gagcaatata tgnacaatac ataatggcng ggcgaagaat 60
ataaatgaga tactatacat tagaaattna caagcattgg 100

<210> 3775
<211> 129
<212> DNA
<213> Homo sapiens

<220>
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<222> (5)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (52)
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<220>
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<220>
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<220>
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<222> (92)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (119)
<223> n equals a,t,g, or c

<400> 3775
atggntaatg ggacagacgg ataattaccc gaattaacaa ccacactgct tngaattncta 60
cncacagatg caccacgtac actaagtgat gngggtaatg ctaactacat ttaattggng 120

3406

ataaaatcc

129

<210> 3776

<211> 124

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (19)

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<220>

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<222> (48)

<223> n equals a,t,g, or c

<220>

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<222> (87)

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<222> (104)

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<220>

<221> misc feature

<222> (111)

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<400> 3776

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accctcacta cgggaggcag actcacngat tgtgggaaac actnatgggc ngatgtaaga 120
aata 124

<210> 3777

<211> 77

<212> DNA

<213> Homo sapiens

3407

<220>
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<220>
<221> misc feature
<222> (54)
<223> n equals a,t,g, or c

<220>
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<222> (69)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (73)
<223> n equals a,t,g, or c

<220>
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<222> (76)
<223> n equals a,t,g, or c

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cattctacnt ttnatna 77

<210> 3778
<211> 383
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (314)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (324)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (333)
<223> n equals a,t,g, or c

<220>

3408

<221> misc feature
 <222> (338)
 <223> n equals a,t,g, or c

<220>
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 <222> (378)
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 tccggagagc ctgagagcac ggtggggcgg ggcgggagaa agtggccgcc cggaggacgt 120
 tggcgtttac gtgtggaaga gcggaagagt tttgcttttc gtgcgcgcct tcgaaaactg 180
 cctgccgctg tctgaggagt ccacccgaaa cctccctcc tccgccggca gccccgcgct 240
 gagctcgcgcg acccaagcca gcgtgggcga ggtgggaagt gcgcccgacc cgcgcctgga 300
 gctgctcccc cgantgcccca tggntacaaa ggntgctnag catgagccgc ccgcctggga 360
 ccccgttgcc ccaattcngc cgg 383

<210> 3779
 <211> 67
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (50)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (52)
 <223> n equals a,t,g, or c

<220>
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 <222> (58)
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<220>
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 <222> (63)
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<220>
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<400> 3779
 gaagaaattg ataaagtaaa agcttcgtta tacatttctt tttgggaggn gncatcgnct 60
 aanntgc 67

3409

<210> 3780

<211> 191

<212> DNA

<213> Homo sapiens

<220>

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<220>

<221> misc feature

<222> (17)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (30)

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<220>

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<222> (84)

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<220>

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<222> (106)

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<220>

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<222> (131)

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<220>

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<222> (170)

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<220>

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<222> (183)

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<220>

<221> misc feature

<222> (185)

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3410

<400> 3780

taacccggca ncccttngca aacctttaan ttaagggggg ggggtaaaaa aaagggccct 60
ttgggggttt aaaccgggcc ccnnttgggc ccaaaggggg tttaancctc cggggggttc 120
cccccggggg naaaaatttt ttccccccgg ggggggggtt cccggaaacn ccccaaaccg 180
tcngnttttt c 191

<210> 3781

<211> 53

<212> DNA

<213> Homo sapiens

<220>

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<220>

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<222> (17)

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<220>

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<222> (18)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (28)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (47)

<223> n equals a,t,g, or c

<400> 3781

ggactanttc tagatcnnga gcggccgncc tttttgggtg tccgttnac gta 53

<210> 3782

<211> 375

<212> DNA

<213> Homo sapiens

<220>

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<220>

<221> misc feature

3411

<222> (284)
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<220>
<221> misc feature
<222> (287)
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<220>
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<223> n equals a,t,g, or c

<220>
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<222> (357)
<223> n equals a,t,g, or c

<400> 3782
ggaacancct gaaggactgc ggccctcttct gaggggcagc ggggcctggc gggatgggcc 60
accgccgact ttgtaccccc caaccctga ggaagatggg ggcaagaaga tcacgctccc 120
cgctgttcc ccgcccgtt ttctcctctt tcctctcttt gttctcagct cccctgtcc 180
cctcagctcc agacgtaggg gaggggttgc cacaggcctc cctgtttgaa gcctgccctt 240
gtctgaaatg ctggtaatgg ccatggtacc cccttctggg catntgntct ggtttttaac 300
cattgcttgt tctgtgatga ggggaggggg gcacatgctg antctcccaa ggctgnntct 360
ggaggggccc ctgtt 375

<210> 3783
<211> 265
<212> DNA
<213> Homo sapiens

<220>
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<222> (8)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (17)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (90)
<223> n equals a,t,g, or c

3412

<220>
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<222> (121)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (124)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (160)
<223> n equals a,t,g, or c

<220>
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<222> (188)
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<220>
<221> misc feature
<222> (230)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (238)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (257)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (262)
<223> n equals a,t,g, or c

<400> 3783
gcggactngt gggggcngtt tgatcactga tcgagtaagg aatgaccttt aattgggcga 60
attttggttt tggtttttta aaatTTTTTn aaccagaat gatttctcct gcttccttct 120
nctnaccatc ttcccagacg gagttcaaag gccacttctn aagcagcttt tggcaccttt 180
agcctcanaa gtggaatctt ttaaagacag gacccttatg ttcagggaan gggaaaangg 240
acttttgcaa tgatagnac cncag 265

<210> 3784
<211> 505
<212> DNA

3413

<213> Homo sapiens

<220>

<221> misc feature

<222> (411)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (421)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (470)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (485)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (491)

<223> n equals a,t,g, or c

<400> 3784

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gtgatattat actctatcct gggccagaga agataatggt ctttaatggt gtccaggaaa 60
ccctggcttg cttgccgagc ctaatgaaag ggaaagtcag ctttcagagc cagtgaagga 120
gccacgtgaa tggccctaga actgtgccta gttcctgtgg ccaggagggt ggtgactgaa 180
acattcacac agggctcttt gatggaccca cgaacgctct tagctttctc aggggggtcag 240
cagagttatt gaatcttaat tttttttaat gtcaagtttt gtataaataa taaagaactc 300
cttattttgt attacatcta atgcttcaag tggtgtctct ggaaagctga tgatgtctct 360
tgtagaagat ggactctgaa aaacattcca ggaaaccatg gcagcatgga nagcctctta 420
ntgattgtgt ctgcattggt attgtggaag atttaccttt tctggtgtcn taaagcttaa 480
attgnttttg ntgggacttt ttacc 505
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<210> 3785

<211> 226

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (189)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (198)

3414

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (204)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (215)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (224)

<223> n equals a,t,g, or c

<400> 3785

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gcgtggttta gacctgctgt gtggcagaca atgggaagcc tgtgtgtcgt cctgggtgcc 60
ggatttagac aatatttagc tttcccttgg tggaaaagcc tttcccctcc tgctttgggc 120
aggaactggg tcctgttggg cggggcctgg ctgctgcccc acccccaccc ggcgggcacc 180
ttgaccggn gctctcnga ctgntccctg cctgngeccc tganca 226
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<210> 3786

<211> 177

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (169)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (171)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (175)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (176)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (177)

3415

<223> n equals a,t,g, or c

<400> 3786

agaaattcat gcattctatatt ataatacctt ttgatacatg tgaaaattaa gaagtttggt 60
tcagtacttt agaaatacaa tgaggggaata tccgatctag cctgggtccag gaaaagggaa 120
gaagactgag gcagcaggaa aggctatcag gaagtaaacc ctccggggnc ntggnnn 177

<210> 3787

<211> 50

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (19)

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<220>

<221> misc feature

<222> (39)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (41)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (48)

<223> n equals a,t,g, or c

<400> 3787

gactaagttt tagatcgtna gcggccgccc ttttttttng nttttatnga 50

<210> 3788

<211> 177

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (38)

<223> n equals a,t,g, or c

<220>

3416

<221> misc feature
<222> (56)
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<220>
<221> misc feature
<222> (61)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (106)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (121)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (168)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (173)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (174)
<223> n equals a,t,g, or c

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ngttgcatca ctgaaactcc aggtttcaca gagaatttcc taaggnatta ggtttgagtt 120
ncttccttcg tgggatgcta tggattcttt aaccaaacca gcctaatntt tcnnctg 177

<210> 3789
<211> 196
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (7)
<223> n equals a,t,g, or c

<220>
<221> misc feature

3417

<222> (8)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (39)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (70)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (76)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (78)
<223> n equals a,t,g, or c

<220>
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<222> (128)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (143)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (146)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (180)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (196)
<223> n equals a,t,g, or c

<400> 3789
gcagggnntt tccccagttt ctgacttgaa gtagactgng aagaatccac gaggtgctat 60
ccggccagan ttaagnanat tctatttcct tggttctccc tctccctgag gacctcttat 120

3418

tttattgncc cctcttcttag gtnaantctc ctttgatttg actttgttga gaaggaggtn 180
ggacagtaga ttagcn 196

<210> 3790

<211> 197

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (26)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (38)

<223> n equals a,t,g, or c

<220>

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<222> (70)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (76)

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<220>

<221> misc feature

<222> (90)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (115)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (151)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (168)

3419

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (169)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (170)

<223> n equals a,t,g, or c

<400> 3790

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gaaagggtttn aagtgggtatg cagtgnntttt atgtcctnca taactgattt aaattagtag 60
gactatttttn atcttncaac ttttaatttn cttataaaag tcaagtaaata acaangattg 120
ttattagctg aatagcagat gagatctcag natttaaaag aacagatnnn ttcttataaa 180
ctcgcttttg atttttaa 197
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<210> 3791

<211> 161

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (117)

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<220>

<221> misc feature

<222> (126)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (140)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (144)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (150)

<223> n equals a,t,g, or c

<400> 3791

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ggagatttttg gatggcaacg atgagaagta caaggctgtg ctattacttt ttgagctttg 60
caagttgtgt acataataat tctaaagaag ttacttttgt tgcaatgcat caaattnaaa 120
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3420

tgatgngatt ttttttgtn tatntgatch tagtgacagt g

161

<210> 3792

<211> 51

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (9)

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<220>

<221> misc feature

<222> (31)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (40)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (50)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (51)

<223> n equals a,t,g, or c

<400> 3792

gctgtgttnc agaccgtgtc tgacttagtg naacctaggn gattttatan n

51

<210> 3793

<211> 110

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (4)

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<220>

<221> misc feature

<222> (89)

<223> n equals a,t,g, or c

<220>

3421

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<220>
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<222> (98)
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<220>
<221> misc feature
<222> (105)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (106)
<223> n equals a,t,g, or c

<400> 3793
gggnctttgt gataccacaa atcccaagcc ttcccttgcc tgaccaatac ccatcaaggt 60
ctgtgatttg acttggtgca tattggtang nccaggggnag gcttnngatg 110

<210> 3794
<211> 88
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (54)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (55)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (61)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (64)

3422

<223> n equals a,t,g, or c

<400> 3794

ggggntttgt tgctgtcctg gctgtcctaa ccaggggggtg ggcattcgga actnngggcc 60
ntantgggaa ggggaacgaa gaaaaacc 88

<210> 3795

<211> 82

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (43)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (45)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (63)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (67)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (72)

<223> n equals a,t,g, or c

<400> 3795

gcaacttcat tctcaaagag tagcaagttg tcatgagggg ccntnaatga caacttcata 60
ctnaaanaga ancaagcgtg ga 82

<210> 3796

<211> 179

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

3423

<221> misc feature
<222> (16)
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<220>
<221> misc feature
<222> (20)
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<220>
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<222> (30)
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<220>
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<220>
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<222> (133)
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<220>
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<222> (148)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (153)
<223> n equals a,t,g, or c

<220>
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<222> (179)
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<400> 3796
gntggatatgt gctatnaaan atatcaatan tgcgtcatgc caagatcaca cagcatggag 60
acacatgttc acgcagataa cacagncacc gcgtccctac cctggcgcat atgccatggt 120
cgatcttggc aanaggggaa cattctgngc gantttccct ttggccgtca attggtctn 179

<210> 3797
<211> 95
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature

3424

<222> (9)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (33)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (38)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (43)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (67)
<223> n equals a,t,g, or c

<400> 3797
tttttttttng ggggggggggt ttaaaaaaaaa aanaaggntt aanccccccc ggggggaaaac 60
ccttttnaaa aaaaccagtt ggaaagggtt atttt 95

<210> 3798
<211> 240
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (18)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (19)
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<220>
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3425

<220>
<221> misc feature
<222> (80)
<223> n equals a,t,g, or c

<220>
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<222> (161)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (171)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (193)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (202)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (240)
<223> n equals a,t,g, or c

<400> 3798
gncctctgga cccactcnnn ccttcctgcc ctgtttgctc agggacatca cccacatgcc 60
ccagctctcg gacctgcan ctctgtgtcc caggccacag caaaggctctg ttgaaccct 120
ccctccattc ccagttatct gggtcctctg gattcttctg nttcttgaat naggctctgc 180
tttacccta gcnactacag gnaagcctct gacagtggcc gctttacttg cattctgcan 240

<210> 3799
<211> 89
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (4)
<223> n equals a,t,g, or c

3426

<220>
<221> misc feature
<222> (8)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (10)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (28)
<223> n equals a,t,g, or c

<400> 3799
ntcntttntn cgtccggtac atactgggct ctgggagtag attgaacaag ccattaaaat 60
taaacagcc ttaaaaaaaaaa aaaaaaaaaa 89

<210> 3800
<211> 250
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (32)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (56)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (65)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (92)
<223> n equals a,t,g, or c

<220>
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<222> (109)
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<220>

3427

<221> misc feature
<222> (112)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (132)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (139)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (177)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (215)
<223> n equals a,t,g, or c

<220>
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<222> (237)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (238)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (248)
<223> n equals a,t,g, or c

<400> 3800
gagctgagga acgaaagaaa cttcgacaag anaatggaaa tgtacatgct atagcntaac 60
tgaanataaa attacaggat atcacattgg antcactgcc aagtcatan cntaaatgat 120
gagtcgggtcc tntttccant ggatcataag acaatggacc ctttttggtta tgatggnttt 180
aaactttcaa ttgtcacttt ttatgctatt tctgnatata aaggtgcacg aacgtcnnaa 240
gtattttntc 250

<210> 3801
<211> 54
<212> DNA
<213> Homo sapiens

3428

<220>
<221> misc feature
<222> (12)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (24)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (32)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (39)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (41)
<223> n equals a,t,g, or c

<400> 3801
ggagccacaa tntgcactgg ggtntcaaag angactacnt ntggaaattt ttta 54

<210> 3802
<211> 300
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (21)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (28)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (29)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (32)

3429

<223> n equals a,t,g, or c

<400> 3802

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ggacgcgtgg gcggaggcac nggagagnnc angacgaccc cagcagctgc caggaaaggc 60
cacagtcctg gctgggggct gtggggctgg gccaaaggcca ctgaaatctg gtagacaagg 120
aaaggagagc tgggggacggg ggagcccaga acacaaggct gacagcacia agagaaagcc 180
ctctgtcccc aacaaacctt gaaatcaaca tccccaagct cgcattggccc aaacacacta 240
agaaatacga ctcagaaaat caacagggcc agtggaccca tggatccatc tcaggagagac 300
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<210> 3803

<211> 116

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (25)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (56)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (61)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (110)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (112)

<223> n equals a,t,g, or c

<400> 3803

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gccgacgcgn gggaaaaaaaaa gggnggaaat aaaaaacacc agaggagaaa aaagangaaa 60
nagaaaaaat aaaagcatat ccctatatgg aaggcgaacc tgaggatgan gnctat 116
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<210> 3804

<211> 125

<212> DNA

3430

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (23)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (66)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (74)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (75)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (124)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (125)

<223> n equals a,t,g, or c

<400> 3804

ccnaatcaaa agattggact tcnagcacia tgagacacgg ccaacgggtt catggaaaag 60
ggctanggag ccnnagggtg cgcattgatgc tgagactgaa agggcctttt ggtactgaaa 120
ggcnn 125

<210> 3805

<211> 152

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (22)

<223> n equals a,t,g, or c

3431

<220>
<221> misc feature
<222> (29)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (35)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (75)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (90)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (101)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (102)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (115)
<223> n equals a,t,g, or c

<400> 3805
aggctgtaac tactttataa cnaacatgnc ctgcnaaaat ctgacagctg caaggtactc 60
tggagagtca ccacnttaag ggcatttacn ccgaaacaga nnatggaggc atagnactgg 120
ggaggggaagt tttgaaatgg gctcaacaga aa 152

<210> 3806
<211> 414
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (248)
<223> n equals a,t,g, or c

3432

<220>
<221> misc feature
<222> (297)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (356)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (359)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (379)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (387)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (400)
<223> n equals a,t,g, or c

<400> 3806
gaaggcctgt atggcccttc ctccctctcc aaaccacta tgagacacca cacttcagcc 60
accaccagct tctccactcc tataacccat gtgccctttc aagcctcggg gcctttgcag 120
ttgctatagt ctctatctgg aatgcccttc cccagttct tccatggct gactcctttg 180
aatctttctg gtgttggtta aactgtcacc tcttcttgga acccttctct gaccatcctt 240
ccatgtanat tagctcagtt attctcacct tgttgtgtct tttccttgca gtttagnact 300
cattaccatc tggacatatt ttacgccttg ctctcccact gtgaggacag ggacntgnc 360
tttcttgctc gagactgtnt tcccancat ctattgcagn gcctggtatg cagt 414

<210> 3807
<211> 407
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (7)
<223> n equals a,t,g, or c

<220>
<221> misc feature

3433

<222> (145)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (155)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (320)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (332)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (367) ,
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (385)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (393)
 <223> n equals a,t,g, or c

<400> 3807
 ggggttanttg taaaaaccac gttaatgttt ctgagctttt ataaaacata tcaaccaatg 60
 tgtagacctg caaaagttga aataggtgta taatagactt tttattagtt tggatttgta 120
 atagatcact catttgatg tattntgcat tctantcata tgattataag taattttgtt 180
 tataagttta taagtaattt tgtacaagta aattttaaact ttaacaccat gttaaaattt 240
 cagaagccag aaaagaggga gatgcagtct tatatttaac aacttaaaac agtttaaattc 300
 ccatgtagtt atagactgan ataaaacaaa gnatttctct tggcagtaga atccctgtgt 360
 tctgtgngtg tggaacatat gttcnagagg gcnggggacta tgtcttg 407

<210> 3808
 <211> 73
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (24)
 <223> n equals a,t,g, or c

3434

<220>
<221> misc feature
<222> (31)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (32)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (48)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (72)
<223> n equals a,t,g, or c

<400> 3808
gctagaatat tactgtggat cccntaaaga nngactaatt ggctctgnat taatggagac 60
ttcccactgg cng 73

<210> 3809
<211> 406
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (4)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (27)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (38)
<223> n equals a,t,g, or c

<220>

3435

<221> misc feature
<222> (39)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (198)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (322)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (339)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (387)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (403)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (405)
<223> n equals a,t,g, or c

<400> 3809
ttnntagaga gtccttttgg aagactncta tagggaannc tggtagcct gcaggtaccg 60
gtccggaatt cccgggtcga cccacgcgtc cggttcttta taaagtaaaa gtatacgaaa 120
ctgacaataa tattgtgggt tataaaaggag aatagctatt ggggttagca ttgcacaaag 180
cccagtttct ttctgtgntt gaaaaagatt ttgatcccct tggaatatta agaggtcaac 240
acgtgattgt tgtacgtaca cattgtgctc tggagtgcct atttattgaa atcattgtaa 300
gacctgttat aaattttaag tntattttaa actaaactng taatatacat cctgaaaatc 360
attttataga gtctttttatt tagtaangta .aaaaaatcaa ttnant 406

<210> 3810
<211> 220
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (192)

3436

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (206)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (212)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (213)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (214)

<223> n equals a,t,g, or c

<400> 3810

```
ggttggaata tggcataagc cggactatct gggaatgtgg gggaggggag gctgtgctgg 60
ctcctcttgc agctgtcatc caccaggcac ccccttgc ccccgaaacag ctgctaaggg 120
ttaggggaac tgattggaga aggagcagga atgttgatg tgtggagggg gtggggtggg 180
gggtgacaga tnaactgggt ggaaanctgc cnnncttgca 220
```

<210> 3811

<211> 127

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (23)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (27)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (30)

3437

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (74)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (75)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (116)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (127)

<223> n equals a,t,g, or c

<400> 3811

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nttgtagaga ccccatTTgg aanaccnctn actatagggg aagctgggtac gcctgcaggt 60
accggaccgg aatnnccggg tcgacccacg cgttcgaaca agggcaagga gacctncctt 120
tgagctn                                     127
```

<210> 3812

<211> 299

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (18)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (146)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (184)

<223> n equals a,t,g, or c

3438

<220>
<221> misc feature
<222> (250)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (253)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (264)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (267)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (277)
<223> n equals a,t,g, or c

<400> 3812
aaacccctna ctataggnta agctggtacg cctgcaggta ccggtccgga attcccgggt 60
cgaccccaaa aaacttgatt agggatgatgg ttcacgtagt gggccatcgc cctgatagac 120
ggtttttcgc cctttgacgt tggagnccac gttcttaata gtggactctt gttccaaact 180
gganacaacac tcaaccctat ctcggtctat tcttttgatt tataagggat tttgccgatt 240
ttggcctatn ggntaaaaaa tgancnatt taacaanaat ttaaacgcga attttaaca 299

<210> 3813
<211> 285
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (10)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (19)

3439

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (136)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (241)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (276)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (281)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (283)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (284)

<223> n equals a,t,g, or c

<400> 3813

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ganacccctn ctatagggna agctggtacg cctgcaggta ccggtccgga attcccgggt 60
cgaccacgc gtccgatttc atattaaatg ttatataaca caagagagag aaagtataag 120
tagaaagagt gcctancacc ctaagaaatt taaattaaaa tgctaattat ccattggtga 180
gtgcagtctc gaggataggt gagtaaaactg ctctgtgttg aagtcacact gctgacctgg 240
ntattgtaat aaatcacctc tttggttaat ttaaanaatt ntnnt 285
```

<210> 3814

<211> 107

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (19)

<223> n equals a,t,g, or c

<220>

<221> misc feature

3440

<222> (51)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (64)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (68)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (91)
<223> n equals a,t,g, or c

<400> 3814
tacagaggat cagtgggtgna ggacgcacac ctggactggg cagcagcgag ngagaaggat 60
cgangatngg agcagtgtga aaaggatgaa ngaaagattt ggggata 107

<210> 3815
<211> 123
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (4)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (11)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (77)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (101)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (105)
<223> n equals a,t,g, or c

3441

<220>
<221> misc feature
<222> (109)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (117)
<223> n equals a,t,g, or c

<400> 3815
tatntgaccc ntttggaatg ccggtacgcc tgctgtaccg gtccggaatt cccgggtcga 60
cccacgcgtc cgctgangca tattgtgcac aaaattgggc ncatnacgnt gactgtnacc 120
atg 123

<210> 3816
<211> 506
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (14)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (17)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (37)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (113)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (124)
<223> n equals a,t,g, or c

3442

<220>
<221> misc feature
<222> (148)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (161)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (219)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (225)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (285)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (292)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (309)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (311)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (316)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (327)
<223> n equals a,t,g, or c

<220>

3443

<221> misc feature
 <222> (361)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (410)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (415)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (438)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (461)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (477)
 <223> n equals a,t,g, or c

<400> 3816
 gnctgaatga tggagnntta agtctgagtt ttactgngag ttaaaaccct ctgaatttcc 60
 agatgataat tccatttttta atccatttgg aatgctgaaa gctacaaaaa tgnatttcct 120
 gtcngtaaac atttgttgct ttattttngt gtttaattaa nagtttattt ttccccttta 180
 aatctttgaa ggaaagaagg attttttgct tttttgttng ttttngtcag aatagttcat 240
 ggtaaaacttt gcaattacag atgatagttg aaaaaaaacc ccagngacgc antcgtagcc 300
 gcaggcgtng nttcangggg caggcanaag atagacagcc aggtaacttg agtggacctg 360
 nggacaccat cagggtcaca agcatgaaaa aaatgctatg ctgctttctn aatanattat 420
 acttacatgt acacatgngc catatcattc aaaaattgca ntgcataaaa tggttantca 480
 cctaataaga ctctctatta ataaaa 506

<210> 3817
 <211> 152
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (16)
 <223> n equals a,t,g, or c

<220>

3444

<221> misc feature
<222> (20)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (28)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (60)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (80)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (119)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (133)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (140)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (152)
<223> n equals a,t,g, or c

<400> 3817
gtgggaaacg ctattntctn agggacgntt tcccgtttat atgacaagag cacaggggcn 60
tggccggaaa aaccaattan taggaccacc ttctcttcct tggattggac ttccgacang 120
ggtccttcaa ttnggataan ggccaagggtt cn 152

<210> 3818
<211> 252
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature

3445

<222> (5)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (20)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (30)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (61)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (97)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (102)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (103)
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<220>
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<220>
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<222> (141)
<223> n equals a,t,g, or c

<220>
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<222> (144)
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<220>
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<222> (219)

3446

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (230)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (234)

<223> n equals a,t,g, or c

<400> 3818

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ccgngcgcac ccacgcgcgn ggacctatan aggaattgtg agtaagagaa taaaaggtgt 60
ntcaggggaa ctctaacttt cgggacccac atgcacngca gnncatacct cccatngtgg 120
ccagatatgt cgcggattgt nccncagaca tggcaccaaa ggatagcctt gaaggaggag 180
ctcattggat gccagattca caaggtaatg attcattgng agtggtgcan cganaagtca 240
gagcaccagt tc                                     252
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<210> 3819

<211> 135

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (28)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (125)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (131)

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<220>

<221> misc feature

<222> (132)

<223> n equals a,t,g, or c

<220>

<221> misc feature

3447

<222> (133)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (135)

<223> n equals a,t,g, or c

<400> 3819

ctntggaacg cctactatag ggaaagcngg aacgcctgca ggtaccgggc cggaattccc 60
gggtcgaccc acgcgtccgc ccacgcgtcc gaattcacat aatgccaaat acacaatgtg 120
aattnggcga nnnan 135

<210> 3820

<211> 414

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (15)

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<220>

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<222> (244)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (314)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (345)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (356)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (367)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (380)

3448

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (384)

<223> n equals a,t,g, or c

<400> 3820

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gactgtaatc ttctaaaaat tctgaaagac taattgtttt ctgtgccata taaatgcata 120
ccactgagca aatgaacctt attctcagca ggaacaacta gcatacatgt tctgaattct 180
aacagtgcta aattacattc aagtcacagga agatcacctg gaattaatgg catttcagtt 240
ggcnggcatac attcccaccc ctgggtctta ggaaaaggag gtagaagccc ccagaaccac 300
acggcagaga tcancaagtt ttgtctcaag tcagacaagg tctangtggc cttggnctta 360
tgcaantgg gtgacatatn ggantatatt tccctttacc tccatagagt tcag      414
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<210> 3821

<211> 147

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (79)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (132)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (135)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (143)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (147)

<223> n equals a,t,g, or c

<400> 3821

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gtataagcct ttattccaag aggtatttat gctaatatgt gccataaaaa agtagagttt 60
taatatttga caaaatgtnt gtgcaaagaa acaaatgcat aaacacatta ctgctacatt 120
aaggcatttt gnaanctgga canctan      147
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3449

<210> 3822

<211> 76

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (38)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (42)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (45)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (46)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (62)

<223> n equals a,t,g, or c

<400> 3822

gggattgaga gacacacaca gctgggtcaag tagacgtnta cngggnacca tttgaatatt 60
tnatccatga atcatg 76

<210> 3823

<211> 437

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (22)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (370)

<223> n equals a,t,g, or c

<220>

<221> misc feature

3450

<222> (382)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (404)
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<220>
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<222> (420)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (423)
<223> n equals a,t,g, or c

<400> 3823
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ctgggacctc acacgctggg cttcacgget gccaggagcc tctccctcc agaagacttg 120
cctgctaggg acctcgctg ctggggacct cgctgttg ggacctcacc tgctggggac 180
ctcacctgct ggggaccttg gctgctggag gctgcaccta ctgaggatgt cggcggtcgg 240
ggactttacc tgctgggacc tgctcccaga gaccttgcca cactgaatct cacctgctgg 300
ggacctcacc ctggagggcc tgggcctggg gaactggctt actttggggc cccaaccgg 360
gagtgatggn tctggcttga antggtttgt gaagttggta gccnctgtta aaggggtgcan 420
aanagatcat tacggta 437

<210> 3824
<211> 345
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (12)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (39)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (42)

3451

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (48)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (112)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (325)

<223> n equals a,t,g, or c

<220>

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<222> (333)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (335)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (343)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (344)

<223> n equals a,t,g, or c

<400> 3824

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gaattccccgg gtcgacccac gcgtccgcaa cagaaagatg gggctgtccc anccgtaagt 120
caggctcgag ggagactgat cccctgacca attcacctga taaactctag ggacactggc 180
agctgtggaa atgaatgagg cacagccgta gagctgtggc taagggcaag ccccttcctg 240
ccccacccca ttccttatat tcagcaagca acaaggcaat agaaaagcca gggttgtctt 300
tatattcttt atccccaaat aatanggggt ggnngngaggg gcnnng 345
```

<210> 3825

<211> 439

<212> DNA

<213> Homo sapiens

<220>

3452

<221> misc feature
<222> (10)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (18)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (35)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (41)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (95)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (409)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (411)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (416)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (419)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (439)
<223> n equals a,t,g, or c

<400> 3825
ttaacggggn aaatttcnta ggccattctg gtacncttgc nggtaccggt ccggaattcc 60

3453

cgggctcgacc cacgcgtccg cggacgcgtg ggcgnacgcg tgggctgagg ccagcatgag 120
ctctccacag gggacttggt tggggcagac atctgtagt gctcttgagc cactgggggc 180
cctgggattg gggcatgggc agtagctgat tccccctcac cccatcctct ctggcattgg 240
caggtcagtg cacaatgaac tggagaagcg caggtgagtc ccagtcctgc cctgacagcg 300
ccagcccca ggggccactg ccctctggcc tcccccccc tgccattcct gtggccggca 360
aggtggggct ggcactgcct ccagacctct tcccacagga aggcccaant naaacnggng 420
ctggaagcgg ttgaagcan 439

<210> 3826

<211> 127

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (12)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (20)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (49)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (54)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (108)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (111)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (116)

3454

<223> n equals a,t,g, or c

<400> 3826

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cgggacttna anggggggtan actaatggga aagctcatta taggggaatnc tggnacgcct 60
gcaggtaccg gtccggaatt cccgggtcga cccacgcgtc cgactagnag nagatngcga 120
gcggtcg                                     127
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<210> 3827

<211> 362

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (15)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (38)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (41)

<223> n equals a,t,g, or c

<220>

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<222> (56)

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<220>

<221> misc feature

<222> (218)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (282)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (332)

<223> n equals a,t,g, or c

3455

<220>
<221> misc feature
<222> (337)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (353)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (361)
<223> n equals a,t,g, or c

<400> 3827
tntaacgggg ggaangctat tgggaaggcc attctggnac ncttgccggt accggnccgg 60
aattccccggg tcgaccacg cgtccgagaa aaaggaagag gggtgggcac cgtcgtgaaa 120
tggtacactt cctcaccgcg gtgcttatct acataattgt gtttttataa catttccttt 180
acttttctgt aagctgatgc tggcctaatt atagattntt aagagaacac ttcattgtac 240
cccaaattat acagtgtctt aaaaaggtag tttcttaccg gnttaccaaa taccttataa 300
attcgaatta cataaaaacaa ttcgagatac anaatanaaa cagcctgtac tgntaacagg 360
ng 362

<210> 3828
<211> 239
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (126)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (127)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (131)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (134)
<223> n equals a,t,g, or c

<220>

3456

<221> misc feature
<222> (157)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (200)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (206)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (228)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (229)
<223> n equals a,t,g, or c

<400> 3828
gaaaaaatttt atttgcattt atgcctttag gataattttg tatcttttcta atctgtttta 60
tcatttgctac aggttttttaa aaaagaacct ttcactagct agcacatgcc agaggttcac 120
atctgnnttg nttntcaaac aggtcgtagc tgtattnatt ggccatgcaa gtagaggaaa 180
tgcacagtac aaatgttttn ctttancacg taagggacct atccttgnnt tgaaaagtg 239

<210> 3829
<211> 56
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (13)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (19)
<223> n equals a,t,g, or c

<220>

3457

<221> misc feature
<222> (25)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (50)
<223> n equals a,t,g, or c

<400> 3829
gcttgnataa agnattggnt tgganttggg aaattaaaaa aaggtttcan tttaac 56

<210> 3830
<211> 564
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (28)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (39)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (43)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (47)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (70)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (237)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (351)
<223> n equals a,t,g, or c

3458

<220>
<221> misc feature
<222> (517)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (547)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (555)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (558)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (560)
<223> n equals a,t,g, or c

<400> 3830
catttttgag gcagtgggtc aaacaggnaa agccaatgna tgngtgncat tttaaagtgt 60
cggaattaan cctctgaata ccttctccat tgggggaaag atattcttgg aaccactcat 120
gacatatctt agaaggtcat tgacaatgta taaactaatt gttggtttga tatttatgta 180
aatatcagtt taccatgctt taattttgca cattcgtact atagggagcc tattggntct 240
ctattagtct tgtgggtttt ctgtttgaaa aggagtcatt gcattctgtt acatttacct 300
tatcaaacct agaattgtgta tatttataaa tgtatgtctt cattgctagg nactaatttg 360
cagatgtctt tacatatctt aatacagaaa ctataacatt caatagtgtg ctgtcaaagt 420
gtgtcttaact cacctggata tacctacatt ggtaaagtgt aaacagtaat cattaaaaca 480
tttttgatta aaaaaaaaaa aaaaaagggc gggccgnttt aaaaggatcc aagctttacg 540
taccctntgc atgcnacnng cata 564

<210> 3831
<211> 637
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (461)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (558)

3459

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (569)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (597)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (614)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (628)

<223> n equals a,t,g, or c

<400> 3831

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ggggaccaaa gaggccatag tgcccatgga ggtttggact taagagatat tcattggcag 60
ctcaaagact tccaccctgg agaccacact gcacacagtg acttcctggg gatgtcatag 120
ccaaagccag gcctgacgca ttctcgtatc caaccaagg accttttggga atgactgggg 180
agggtgcag tcacattgat gtaaggactg taaacatcag caagacttta taattccttc 240
tgcctaactt gtaaaaaggg ggctgcattc ttgttggtag catgtactct gttgagtaaa 300
acacatattc aaattccgta taccaaaatc catttccttt gtaacaagaa tttaccagta 360
actgtgatct aggttgccaa aagttgtctg aatctcctta ttcttctctg atcttcattt 420
atgcagccaa tgtctagctg gacctgccct catcttgcatg ntcatacagg cactgtttga 480
gagattgggtt attattagat gttgtaatgc tgcttcaaga ttcttcatgg ttacatggga 540
tgccctgct catctggnc tgaagtant aacattcacc ccaatgaggg atatagncat 600
taattccttt ttcnagttac ttgtaccnaa acaccgg 637

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<210> 3832

<211> 488

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (99)

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<220>

<221> misc feature

<222> (234)

<223> n equals a,t,g, or c

<220>

3460

<221> misc feature
<222> (263)
<223> n equals a,t,g, or c

<220>
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<222> (264)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (269)
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<220>
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<220>
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<222> (359)
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<220>
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<222> (375)
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<220>
<221> misc feature
<222> (415)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (432)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (435)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (470)
<223> n equals a,t,g, or c

<220>
<221> misc feature

3461

<222> (481)

<223> n equals a,t,g, or c

<400> 3832

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ggccccctgcc cgtaccgggtc cggaattccc gggtcgaccc acgcgtccgg aataatttat 60
aatgggttatt tattggaggt ggtaattagg gaagatgtnc ttttaaacag tagaattgtg 120
ttacaaaggg gtgaaagaga gggaatagtt gtccttgtt gaagggcatg tgaaggtagg 180
tttcagggtt ggttttacaa acctgttaac tacctcctgt ccagcttgac aganactaat 240
ttttcatctt ttgtctgtca atnngttcnc agaaaagaga cttttccctc tcttgatagg 300
atctgtctta gggacanagg gaccatcgtc ttaagtga ttaattattg atggttcana 360
atgggttttca tcatnttggg atcagctata tggcaaata gtatcatcaa tgagntaacc 420
atctaaaaat anaanaagtg gaagccctaa aatgctagga ataataatan aaaggccaaa 480
nataaccc 488
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<210> 3833

<211> 436

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (19)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (37)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (98)

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<220>

<221> misc feature

<222> (142)

<223> n equals a,t,g, or c

<220>

<221> misc feature

3462

<222> (195)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (297)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (302)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (305)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (311)
<223> n equals a,t,g, or c

<220>
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<222> (313)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (314)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (332)
<223> n equals a,t,g, or c

<220>
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<222> (356)
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<220>
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<222> (361)
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<220>
<221> misc feature
<222> (401)

3463

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<220>

<221> misc feature

<222> (403)

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<220>

<221> misc feature

<222> (432)

<223> n equals a,t,g, or c

<400> 3833

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nnaattcaca ctgaaacgnc ctactatagg gattagnnggg aacgcccgcg ggtaccgggc 60
cggaattccc gggtcgaccc acgcgtccga ttacattntc tccctgata atctcttcta 120
aattaccttc tgtagtgtgt tntcttccct tccttaatgt tagccattct tcagggtgaag 180
gttaatcctc aatgnactct tcatgtttta ggggaggggc taaaaccttg ggggtaggac 240
ttaccaacgg agtttcattg catgatgac ttattgagct tattggtagc ccttatntca 300
gnatntaaag ntnntcttgg gctggtcaga tnttcaagag aagacttttc atttcntttg 360
nggagggaaa aggcctttta ccagcactct tcaagctcag nangggaaag acttcaagca 420
ctcaggaagc angcat 436
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<210> 3834

<211> 115

<212> DNA

<213> Homo sapiens

<220>

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<222> (8)

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<220>

<221> misc feature

<222> (30)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (43)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (79)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (81)

<223> n equals a,t,g, or c

3464

<220>
<221> misc feature
<222> (109)
<223> n equals a,t,g, or c

<400> 3834
gcctagtnat agggcagtgga ggaatcaggn ctactatgga aanagtcaca taacgggtctc 60
ttcaaactct tacatgccnt nacctaagat gatcaccact cactgcgant gtctc 115

<210> 3835
<211> 69
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (35)
<223> n equals a,t,g, or c

<400> 3835
tttaaggggt gggaacccccg gcccccgga caggngacac gcggggccgc ggaaatattc 60
tccggggggg 69

<210> 3836
<211> 66
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (55)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (58)
<223> n equals a,t,g, or c

<220>
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<222> (59)
<223> n equals a,t,g, or c

<220>
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<222> (61)
<223> n equals a,t,g, or c

<220>
<221> misc feature

3465

<222> (62)

<223> n equals a,t,g, or c .

<400> 3836

gcctttaaaa acagaacctt ttatacaggt ggattttcat tcctctgggg acagnggng 60
nnaaga 66

<210> 3837

<211> 52

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

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<220>

<221> misc feature

<222> (38)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (47)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (49)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (51)

<223> n equals a,t,g, or c

<400> 3837

gagcncaatg aagatcaaga tcattgctgg gtgcgtgntg cattggngnc nt 52

<210> 3838

<211> 314

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (305)

<223> n equals a,t,g, or c

<220>

3466

<221> misc feature
<222> (307)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (309)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (310)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (314)
<223> n equals a,t,g, or c

<400> 3838
ggtttttttct tattgctgtg gaacctcttt tggaggacgt taaaggcgtg ttttacttgt 60
ttttttaaga gtgtgtgatg tgtgttttgt agatttcttg acagtgtgtg aatacagacg 120
gcaatgcaat agcctattta aagacactac gtgatctgat tgagatgtac atagtttttt 180
tttttaccat aactgaatta ttttatctct tatgttaaca tgagaaatgt atgccaaatg 240
attagtgtgat gtatgttttt taatttaata tttaaataaa atatttgga ggaaaaaaaa 300
aaananann aan 314

<210> 3839
<211> 181
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (7)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (32)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (46)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (49)
<223> n equals a,t,g, or c

3467

<220>
<221> misc feature
<222> (60)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (102)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (112)
<223> n equals a,t,g, or c

<220>
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<222> (125)
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<220>
<221> misc feature
<222> (148)
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<220>
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<222> (180)
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<400> 3839
tcaactncta ctagggggggg gaaaaaaggc tntgggttta cggcncntnt ggccaagggg 60
ttacccggggg tttccccggg gaaaattttt cccccggggg gnttccggaa cncccaacgg 120
gccgnttccc cggggttggt tggaaacntt aaagggtttta tttttggctt tggccattan 180
a 181

<210> 3840
<211> 458
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (373)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (394)
<223> n equals a,t,g, or c

3468

<220>
 <221> misc feature
 <222> (420)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (423)
 <223> n equals a,t,g, or c

<220>
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 <222> (450)
 <223> n equals a,t,g, or c

<400> 3840
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 tctgatgtgc ggcacttcat gtccgagctt atccatttgg ttttgggtctt tggaaaagac 120
 aacgttagtc acttactagt ggcagttgca tggagaagag ggctcactaa tgggggacag 180
 ggtgatcatt tggagtttgc aagctgtgaa gacagatgtt ggctcttcac aattttggaa 240
 gggttcacta gttaagtgtg ggaccttatg ggggatggaa ataaggcaga ggcatagttc 300
 tggccactga gttccttaag gtctgctgaa ggctgccgat gcgtctctca ctccctcgta 360
 tgctctggag canaccaggg gctggaggaa tganggaaga tcctttcatt aaccaccatn 420
 tgntgacatt tttctttgtg aaaacatttn tattatat 458

<210> 3841
 <211> 498
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (459)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (465)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (480)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (493)
 <223> n equals a,t,g, or c

3469

<220>
<221> misc feature
<222> (498)
<223> n equals a,t,g, or c

<400> 3841
gcagtgggtgc agttctcggc ctctcggcct ggcttctctga ccttctggga ccagtgcaca 60
gagagactca gctgcttcct ctgcccgggtg gagcgggtgc ttctcacctt ctgcaaccag 120
tatggtgccc gcctctccct gcgccagcca ggcttggtctg aggctgggtga gtgggctgct 180
tcctccttcc acccttgctc agattcccag tgacaggaag ctcggggaag ccaggtcagc 240
ccacacagat aaacgaactg ggcaccgagg agaccagcaa agacttgggc cttagagcag 300
aaggacccag atgggtggggg tttgaacagg gggcccctgg acctgagcct gggataggag 360
catctctccc ctctaaaagc tgtgttcacc caaactctga ggcccatgct actgcctcct 420
gcagtgtgtg tgaagttcct ggaggatgcc ctggggcana actgnccaga agggcccaan 480
caagggcctg ganagcan 498

<210> 3842
<211> 98
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (46)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (63)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (78)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (92)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (96)
<223> n equals a,t,g, or c

<400> 3842
gaacactgca atgctataca tctatgctgt gttgcttggt aaatcnaggc actgcagtat 60
tangcatgca catgattntt tctgagaatg angaant 98

<210> 3843

3470

<211> 63
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (41)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (47)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (49)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (57)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (58)
<223> n equals a,t,g, or c

<400> 3843
gcggacgcgt ggggtggcact gaggagctat ggggccacaa ncagtantna ctggctnntt 60
tcc 63

<210> 3844
<211> 65
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (8)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (19)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (36)

3471

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (41)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (60)

<223> n equals a,t,g, or c

<400> 3844

gacggacnca taggacctnt aatctttcat cacagntcga naggcccacc tgtaccgtgn 60
tattt 65

<210> 3845

<211> 76

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (12)

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<220>

<221> misc feature

<222> (14)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (15)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (70)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (74)

<223> n equals a,t,g, or c

<400> 3845

gaaaaaaaaac antnnacaat gaaaatattg agaagatatt gagaaagaaa tatatttggg 60
gcggacatcn atgnga 76

<210> 3846

3472

<211> 187
<212> DNA
<213> Homo sapiens

<220>
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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (11)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (37)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (45)
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<220>
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<222> (71)
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<220>
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<222> (122)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (136)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (156)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (170)
<223> n equals a,t,g, or c

<220>
<221> misc feature

3473

<222> (176)

<223> n equals a,t,g, or c

<400> 3846

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ttaattncca ngaacttatt tagggcattc cctttcnacc atggncnaacc ccattgccct 60
tacggacttt ncaaagggat tagaatttct ttctcttttc ttaattcagg ggggacaatt 120
cnggcttttc caacanctcc ttgcttgccc gcttgncagc agccaggcan gtttcngatg 180
aatcaag                                     187
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<210> 3847

<211> 68

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (15)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (22)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (24)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (27)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (37)

<223> n equals a,t,g, or c

<400> 3847

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gctgggaaca agccngagct gnangangaa gagaagntgt acaagaacgc ccgggaaagg 60
gagaagta                                     68
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<210> 3848

<211> 235

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (11)

3474

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (12)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (161)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (166)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (187)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (190)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (218)

<223> n equals a,t,g, or c

<400> 3848

gcgccccgcg nnagggccgc acgaggcccg gcgtgcgccc ccgcctctcc cgaagcgccg 60
ggccccacgc cgccctctct ttccctttcc gctctctccg cctccggaag cgcgggcgcg 120
cggcgcgggg agcccggttca gggccgcggg agtgcgccag ngccgngcgt ggggctgagg 180
tggccgnggn tctcagatat atttttgccca tcatggancca gtttgagat atatt 235

<210> 3849

<211> 71

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (13)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (61)

3475

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (62)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (63)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (68)

<223> n equals a,t,g, or c

<400> 3849

gctttgctgc tangtaggca tggattatta tgctgataca tagagctctt ttgatgataa 60
nnngattnta a 71

<210> 3850

<211> 76

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (43)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (47)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (48)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (67)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (71)

<223> n equals a,t,g, or c

3476

<400> 3850
ggggagaagt gccccctggt gaagctcttt gtgacgggcg agntcanngt ttttgatggg 60
tgactgncca nacttc 76

<210> 3851
<211> 63
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (19)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (25)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (30)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (35)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (52)
<223> n equals a,t,g, or c

<400> 3851
gcaatgtccg ccagaaggnc aggcnagccn agccntgccc tcaggcggag antggtctgt 60
gac 63

<210> 3852
<211> 349
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (188)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (225)

3477

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (280)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (303)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (318)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (348)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (349)

<223> n equals a,t,g, or c

<400> 3852

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gtcatcatct atcccccttta taaatgaact acactgttgt ttttctgact tcgatgtgct 60
ttgaagtaca gtgtagcata tcattctacc ttgaatccta tgataataca gttgacatct 120
tgctgtagtg gacttgtgca tatagcacac atgatatagt atattgtatt acagtaaact 180
ttagacantg ctacttaatc attttacttc atgaagataa actancattc taaatatgaa 240
taatattaat ggtctacaaa aaattttgag cacattttan aatcatattt ataataaact 300
ggncaaattg ggcttatnta atgtataatt tagaaccacac tgtgtagnn 349
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<210> 3853

<211> 129

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<220>

3478

<221> misc feature
<222> (10)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (52)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (82)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (114)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (115)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (128)
<223> n equals a,t,g, or c

<400> 3853
nttgaccann tgtcacacat gatatagtat attgcattac agtaaacttt anacaaatgc 60
tacttaatca ttatacttca tnaagataaa ctaggcctgt caaatatgaa tatnnttaat 120
ggctacana 129

<210> 3854
<211> 200
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (30)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (63)
<223> n equals a,t,g, or c

<220>
<221> misc feature

3479

<222> (92)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (136)
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<220>
<221> misc feature
<222> (143)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (173)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (198)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (200)
<223> n equals a,t,g, or c

<400> 3854
ggaaatattt aaaggttgaa aattataatn acctataaag ctgtgaaaaa tagaagtata 60
atntgaaaaa acatttcact tatcagagat tnttatattt atacaaaaga ttactaaatg 120
aaggattgct aaatgntttt ggntcaatta cataaaaatt aatattctgg gtntgatctg 180
ggagagaata aatatganan 200

<210> 3855
<211> 456
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (89)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (176)
<223> n equals a,t,g, or c

<220>
<221> misc feature

3480

<222> (213)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (216)
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<220>
<221> misc feature
<222> (242)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (276)
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<220>
<221> misc feature
<222> (279)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (287)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (308)
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<220>
<221> misc feature
<222> (312)
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<220>
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<222> (321)
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<220>
<221> misc feature
<222> (336)

3481

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (338)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (343)

<223> n equals a,t,g, or c

<220>

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<222> (383)

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<400> 3855

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tgcacgtttt ctctttggaa agataagcac tggagaacca tcttcgttac cttcancaga 180
aatggaaaca attcaagaca ttaagaatgc cgnaantgga cagcagctat gcanggttca 240
gnatatgaag ttttcaagat ggtgtgcctc actaancng aaatcangaa aagatcgaag 300
ctagcctntt tnatctcagc ntgctcctta aatcangnca acnccctcca aaattaattg 360
tgaatctgaa acctttgcca ttngcttttt caaactttaa attgganata accttaactt 420
attntgntga aaccacantt gccaccataa aattat 456

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<213> Homo sapiens

3482

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aagaatgtat aggctaagaa atgcctctca cgtatacata gccaaaagct tttcttggct 180
tcagattaat gatttctgat gtaacatttt ttaatgtaaa cacaaaaaat gacttgatat 240
tttcttggtta ctccatttat ttcttaatga ttgcatttca tgtttctaata tttctaagta 300
aattataaatt acaaaattagc cttgtatttaa aatatagggc tcaaaatatt ttctgngggt 360
ctctttgggtc ttcattgccaa gtttgncaat ttatattctc tcagtgatta tttggntatt 420
tttagnggta gntgggtattt atcaagtggg aaactatgaa tacctncatt tgctatttga 480
gaaaatgaca ctcatTTaat ctaantaaaa 510

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3484

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cttcccaaaag gccacagcct ttattccagg cccagggatg taggaggggg aaggaggaaa 180
caggaagccc agagagggca aagggcctac ctcggggcgc gaaccatgcc ccagactatt 240
atctcagggc tttctgggca ctgacttcag cgtggccacc tgcccatgcc ctgaggccag 300
ttggcgaggg gtggtcctga gggtttttat accctttgtt tgctaattgtt taattttgca 360
tcataatttc tacattgtcc ctgagtgtca gaactataat ttattccatt tctctctgtg 420
tctgtgccaa gaaacgcang ctctgggcct gcccttgccc aggaagcctt gcagctgtgt 480
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aaaaaaaaang gn 552

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3485

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3486

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<222> (598)

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tccccctcca cctgccccct gcgtaggcac ccagacttgg agagaccctg ctgctgttaa 180
tacttccatc ctcttccttc ccaaagagca gatcccaagg catttactcc ttgggtctgtc 240
tcgctttatc tgtcgccccct cccagcgctg agagcctccc ctggctgtca gcagcaactgt 300
gtccaggtc ttgtctgaac accgcagccc ctcttctgct ccttccagag ctcagcatgt 360
cacggcaagg actgccgcat tggatgatgga gggccanctg angggaagtt gctggtgaag 420
tttccttttc tncatttcta gcatatggac acctggcctc tgcttgaaca cttangtgac 480
aggaacttcg caccttctga ngccctggat gattctaatt ggtagaaatt ctaattggta 540
naaatcttcc ttataatgaa tgaatctgct ttctataatn ntacctattg ggccttgntt 600
gg                                     602

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<210> 3861

<211> 458

<212> DNA

<213> Homo sapiens

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3487

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3488

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cataaatttt tagttgatgg cattctttta tttgagggct gctttgaaaag tgggttccat 180
gtcttagtca tctttgggtt tcttggggcc ttacacagtg ctggcataaa gcagccctgg 240
aaataatgtt tgttcaaaaat gtaagtggag tatagatttt cccttttggt agatagctaa 300
gaaatccttc angggaacct ggaatgcctc nttggtatgc angtcttgca gagcttttga 360
ttgtnatttg aaataaactg ccctcgtggg gcncctgttct ttttgcaaat tggcttgaaa 420

3489

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458

<210> 3862

<211> 411

<212> DNA

<213> Homo sapiens

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3490

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3491

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 cctcctgaga angaaangat ctgccctgan cactcccctg gcactgttnc tngcctctgc 120
 gcctcaaggg tccccttctg caccgctggc ttccactcca ataaagtgga ccanggtctg 180
 caagttcaac ggtcatagct ttccccccat gtcccaactt gcctcatcac tcccggccct 240
 aatctctcca nnnnnnnncc ccnngcctct tgggctcana cccaactat tcaagggatc 300
 tcctgtcttt aatcgataat tgggggtccc tgctctcccc aagaanatct cttcaagaaa 360
 ataaanttna ccttttnctt ccnaaaaaaa aaaaaaaggg gggggccccc c 411

<210> 3863
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 <212> DNA
 <213> Homo sapiens

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<220>
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3492

<222> (379)
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 gcaggatatac tctgatcaca ttcaggataa gtgtacagaa gaaaatacgg tgtttactct 180
 ttagggaaact ggaaacactc cctgcattga tgttacattt taagaatggc acttttgata 240
 catgttatca taaagggtgct taatagactt gaattaaagt ttttccaaat ctgtaaacaa 300
 agcaaaaaat taaattgttaa tcatttgatt atttttttaa ttggtgcttt atatttngtt 360
 tctcctccan aattaaaanc tgcaatttat tgttcccca gcttttgaag ttttttcctn 420
 tactcaanta atgccaatan ctcccattgg tttgaaattc ccccttttng ggaaatnaat 480
 tttaaaaatt ccctaaccgg gccacttgaa aaacctgccn ccgcctaagg ttttttggct 540
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<220>

3493

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3494

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3495

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<220>

<221> misc feature

<222> (233)

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cccancncn tggntgagna atgcctngct gctgnangtg tattggacct nnatattgca 120
ttactagagg tncgtgaagac tgccctcntc cacnatggcc tatcacgtgg aattccccaa 180
gctgccaaang acttatacaa atncgtgtat cantctcaat actgtggggt ctngcaacac 240
ggaaccaaac tgccnccca                                     259
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<210> 3865

<211> 232

<212> DNA

<213> Homo sapiens

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<222> (10)

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3496

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3497

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<400> 3865

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agtatcatag ttgtacattg gtcacaaatc ctgtcagtgt ctgggttaat ataatacagc 120
tnnggaccnt gcgtctgcnt ccgatgtagt ctatggaaat gtgttgtttc aattgaactg 180
taacangaaa atctggcctc acccatttta tagttganan acggaanagg at 232
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<210> 3866

<211> 126

<212> DNA

<213> Homo sapiens

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<220>

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<222> (10)

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<222> (23)

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3498

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<400> 3866

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cttgtgtgaa cntataaaan aatggtggcc gcgctgtgcc tgctcatntt gcctacatgt 120
cccnng                                     126
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<210> 3867

<211> 315

<212> DNA

<213> Homo sapiens

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<220>

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<222> (160)

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<220>

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3499

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<222> (314)
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gggagatgga gagaaagatt tattttgtan agtctttggg tggaattgtg ggtatactgt 120
tcccttcaca attgactgag tatggataac cgtacataaan catttgctac accccaccag 180
ccccctcccc ctcagaaaaca ccagttcctt cccaaggcca gctgtgccag actccccctcc 240
cgggactgcc ttcttgtcat cataagcaaa aaaaaaaaaag ggggggcccc cccaaaanaa 300
naanaatttt tntna 315

<210> 3868
<211> 309
<212> DNA
<213> Homo sapiens

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<220>
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3500

<222> (153)
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<222> (219)
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<222> (240)
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<220>
<221> misc feature
<222> (250)
<223> n equals a,t,g, or c

<220>
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<222> (263)
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<220>
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<222> (265)
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gggggggggaa aaaaaaggcc ttgggggggt ggaaccncc cccctttggg cccaaagggg 120
gtttaaancc ccggggggnt tccccccggg ggnaaaaann tttcccccc cccggggggg 180
ggttttcccc gaaaaacccc cccaanacg ggccccggnt ttttccccg ggtttggggn 240
ccccccccn ttttttggg gtntntcccc cccccccca aaaaaaaaa aaaaaaatt 300
ttttgggtt 309

3501

<210> 3869
<211> 356
<212> DNA
<213> Homo sapiens

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<222> (33)
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<222> (36)
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<220>

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<222> (49)
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<220>
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3503

<222> (185)
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<222> (187)
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<222> (200)
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<220>
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<222> (212)
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<220>
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<222> (219)
<223> n equals a,t,g, or c

<220>
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<222> (222)
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<222> (286)

3504

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<220>

<221> misc feature

<222> (307)

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<220>

<221> misc feature

<222> (338)

<223> n equals a,t,g, or c

<400> 3869

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cctatttcac atacaacaga tcttttacct ccattctgtt agtaataaca atctcgcccn 120
cccacacctat nanacctgta ccactcagga aggatcacga ccaaatnagt atagggttnc 180
ttctntnaac tttctgtatn acatccgaac tnatgatnnc ancgggggtg gtgttggcag 240
ttggaattgn gggcctcgag ctggctgccca tgattgngtc catntntcta ttactgcaat 300
ctacaangaa tccgcttact gcctctgccca ctaatggntg cccccctggg aactct 356
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<210> 3870

<211> 550

<212> DNA

<213> Homo sapiens

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<220>

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<222> (54)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (66)

<223> n equals a,t,g, or c

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<221> misc feature

<222> (92)

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<220>

<221> misc feature

<222> (103)

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<220>

3505

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<220>
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<222> (302)
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<220>
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3506

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<220>
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 <222> (461)
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<220>
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<220>
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 aaaagngggg gaaaaaaaaag gccttgggggg tnggaccccc ccnccttggg ccaaagnggg 120
 ttaaaccctcg gggggttccc ccgggggnaa aaattttccc cccccggggg ggggtttccg 180
 naaaccccc caaccnggcc cgggttcccc cgggaaaccn caaaaaaaaa tttttaaaaa 240
 ggnaattttg ggggtttaaaa aggaaacccc cttcccttgg gaaaggnaac ccccaaaaana 300
 anaatttttt tttgggtttc ccccccaaat tcccttcctt ttaaccccc cccccctttc 360
 cnaacaaaa acccttgggc cttttttaac ccaaggnaaa aattgggggg aaatttcnaa 420

3507

```

ttgggtttcc ccccccccc tttttnaatt tgggttttgg naaagggggt tgggaaaccc 480
caaacctttt ttaaaanttt tnggcccttt tttccccct ttggncccct tcccccttt 540
ttggnaaaaan                                     550

```

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<210> 3871
<211> 277
<212> DNA
<213> Homo sapiens

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<220>
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<223> n equals a,t,g, or c

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<220>
<221> misc feature
<222> (241)
<223> n equals a,t,g, or c

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<220>
<221> misc feature
<222> (251)
<223> n equals a,t,g, or c

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<222> (270)
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<222> (275)
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gctctttctca ttccacccct ccttttctcc cctgccccca ggactgggcc acttctgggt 120
ggggcagtggt gtcccagatt ggctcacact gagaatgtaa gaactacaaa caaaatttct 180
attaaattaa attttgtgtc taaaaaaaaa aaaaaagggc ggccccncta aaaaatccaa 240
ncttactttc nctttcatgc aacttcatan ctctnct                                     277

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<210> 3872
<211> 550
<212> DNA
<213> Homo sapiens

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3508

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<220>
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<220>

3509

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3510

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aaattaaaag ggggggggaa aaaaaaaggc cctttggggg gtngaaaccc gcccccttt 120

3511

ggggccaaag ggggggtttaa acccccnggg gggtttcccc cgggggggaa anaatttttc 180
cccccccggg ggggggggttt nccgggaaaa ccccccccaa accggggcccn ggttttcccc 240
cggggcccttt gggnggnttt aaagntttgg gggggccccc aaccaanaa agggccccct 300
ttggggggcc naaggncct tnggttttaa gnnaaagncc ccngggccct ttaaaaacc 360
ccttnccccc cggggaaacc aacccccctt ccccccttc ccaacccca accaaaccaa 420
ngnggaaacc cccctttgga aagnttgga agnggaaagg ggaagggggg ggcttggggn 480
aaaaaccct tgggggnatt gnggggtttt gggcccaana aggggaggaa acctccaagg 540
gtccttggc 550

<210> 3873

<211> 450

<212> DNA

<213> Homo sapiens

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3512

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3513

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<400> 3873

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ttcccccccg ggggggggttt ccgnaaccc ccccaaaccg ggccgggttc ccccgggaaa 120
ggggggccaaa ttttcccccc cccctttttt cccaaccaa aaaccaaagg tttaaagnaa 180
agгнаacccc cttnaacna accaanggtt tgggaaaaac cttttttttg gggggggggg 240
aaactttttc ccttgggaaa gnaaattccc aaggncggg tttccccctt aacccccaaa 300
aaggnaaacc ccccccaaaa ggcccccccc aaaaaccttt ccaaaaaggn cctttaaccc 360
aaggnccaaa gncccaaggn ccaacnttt tccccccca aaaggncccc nttggccctt 420
ggnaaccccn aaccaagggt tccaacnaa 450

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<210> 3874

<211> 557

<212> DNA

<213> Homo sapiens

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<222> (211)

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3514

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3515

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<222> (456)
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<222> (465)
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<222> (537)
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<220>
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<400> 3874

3516

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agctgggagg ggactgaact ctggagggtg ctctggagct ggatgtgaca ccaagcatca 120
ccagattggt ggtggaatgt gggggaagaa caggagccta ngagaacagt cccaccccag 180
gcaggctgga gcacctgaat ggatagagga ngtcgttcct gaactgggca gcctgggcag 240
gacacanatn ttggaaatga aaccaggggt cctctgatac aggttacatt tgaaatgttt 300
gcaaaaatcc agttananat gtcaaaaaag cagttagatc ttgtnattct gaanctcatt 360
tnaaaatcca aaatagccca attttagttt ggttttctcc aaccttaact tattagggaa 420
tggntttgaa ttccctgccca naaagaatgt ttnacngaag tnaanaaagg atcccctaga 480
acaanttatg cttaatcccc ttttttgatg gtcenatnaa gaagaaanac cccttnngga 540
aaaaggaaaa accnggg                                     557
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<210> 3875

<211> 550

<212> DNA

<213> Homo sapiens

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<220>

<221> misc feature

<222> (31)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (42)

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<222> (109)

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<222> (139)

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<222> (142)

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3517

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<220>
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<221> misc feature
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<223> n equals a,t,g, or c

<220>
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<220>
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<220>
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<222> (423)

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<222> (426)

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<220>

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<222> (474)

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<220>

<221> misc feature

<222> (481)

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<220>

<221> misc feature

<222> (511)

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<220>

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<222> (513)

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<400> 3875

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nggggggttcc cccgggggna anatttttcc cccccggggg gggtttcccg gaaaccccccc 180
caaaccgggc cgggtttccc cgggcnaaaa ggccctttta tttccttna agnnaaanna 240
aaggnccccn aaccaaattn cccccttggg tttttaggaa aacnttggga aaaaaaagg 300
ttgggggggcc naatttggcc caanaaggna aattnaaan aatttttttt aaattttntt 360
nggncctttg ggtttttccc cctttttggg tttcccttna acccttgggc cttttttttt 420
ttnttttttt cccccccccc ctttttgggt ttgggttttg cccttgggtt tccnaaaaag 480
nttttttttt tgggggggtt aatttcccaa ngnaaaaaaa atttaaaaaa acccaatttt 540
tgggaaaaaaa                                     550

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<210> 3876

<211> 101

<212> DNA

<213> Homo sapiens

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<220>

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<220>
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<400> 3876
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aaaggctttg gggtnggacc cnccttgg gccaaagnggt t 101

<210> 3877
<211> 556
<212> DNA
<213> Homo sapiens

<220>
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<220>

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<222> (456)

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<222> (467)

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<222> (517)

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<400> 3877

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tttctcccta ctgtcaaaaa aatatgcatg tatagtaatt aggacttcat tcctccatgt 120
tttcttccct tatcttactg tcattgtcct aaaaccttat tttagaaaat tgatcaagta 180
acatgttgca tgtggcttac tctggatata tctaagccct tctgcacatc taaacttaga 240
tggagttggt caaatgangg aacatctggg ttatgccttt tttaaagtaa ttttctttaa 300
gaactgtcac atgttntttg ttgaattgtg gaatttggtta ctctgccttg gactatggac 360
agtcaacaat attttcttaa aaatttgcac tattgcanaa cgggtgttat tatccaaggt 420
actccttacc ctaatttttt tngtttctgc ctggtncceg ttacaanaaa cattttccct 480
tttaaatggg ttaccttgcc ttttttaaaa cttttgnttt taacccccct ttaaaaaatc 540
ctgcctttat tgggca 556

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<210> 3878

<211> 99

<212> DNA

<213> Homo sapiens

<220>

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<222> (12)

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<220>

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<222> (50)

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3522

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<222> (88)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (97)
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<400> 3878
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ttttaaaaaa tgnctctttt ttttntnntg attagtntt 99

<210> 3879
<211> 289
<212> DNA
<213> Homo sapiens

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<222> (23)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (46)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (53)
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3523

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<220>
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3524

<400> 3879

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ccagatttca ngaaactttt tttcttttaa gctanccaca gcttacngca atttgataaa 120
atatactttt gtgaataaaa attgagacat ntacattttc tccctatgtg gtcgctccan 180
acttgggaaa ctattcatga agtatatata ttgtatggta atatagttat agcacaantt 240
caataaaaaat ctgctctttg tattgcncctg attgtgngct angcacnga 289
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<210> 3880

<211> 67

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (39)

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<220>

<221> misc feature

<222> (41)

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<220>

<221> misc feature

<222> (49)

<223> n equals a,t,g, or c

<220>

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<222> (54)

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<221> misc feature

<222> (66)

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<400> 3880

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aggaaacttg tgcattacat ttttcctgat caagcaggna nggagcaana tgtncatata 60
tatttnt 67
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<210> 3881

<211> 144

<212> DNA

<213> Homo sapiens

<220>

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<222> (22)

<223> n equals a,t,g, or c

3525

<220>
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<400> 3881
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ttaaaaaaga aaaaagaagg gtnattgcng ggattgaagt tcgcctggcn gtctatccgc 120
ncaaggatcc tctgtccttc atan 144

<210> 3882
<211> 99
<212> DNA
<213> Homo sapiens

<220>
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<220>

3526

<221> misc feature
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<222> (33)
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<222> (52)
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<220>
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<222> (93)
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<220>
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<222> (99)
<223> n equals a,t,g, or c

<400> 3882
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attccccgggt cgaccacgc gtccgctccc gcngggccn 99

<210> 3883
<211> 99
<212> DNA
<213> Homo sapiens

<220>
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<220>
<221> misc feature
<222> (15)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (37)
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<220>
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3527

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (41)

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<220>

<221> misc feature

<222> (94)

<223> n equals a,t,g, or c

<400> 3883

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aaaaaaaaaag ggggggggcc cccccccctt tttnggggg 99

<210> 3884

<211> 99

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

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<220>

<221> misc feature

<222> (12)

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<220>

<221> misc feature

<222> (13)

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<220>

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<222> (35)

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<220>

<221> misc feature

<222> (36)

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<220>

<221> misc feature

<222> (38)

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3528

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<222> (45)
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<220>
<221> misc feature
<222> (92)
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<400> 3884
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aaaggggggg cccccccct tttttggggg gncccaaaa 99

<210> 3885
<211> 104
<212> DNA
<213> Homo sapiens

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<220>
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<220>
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<222> (33)
<223> n equals a,t,g, or c

<220>
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<222> (45)
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<222> (81)
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<220>
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3529

<222> (104)

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gccccccccccc cccctttttt ntttaaaaaa aaaaaaaaaa aann 104

<210> 3886

<211> 188

<212> DNA

<213> Homo sapiens

<220>

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<222> (1)

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<220>

<221> misc feature

<222> (12)

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<222> (19)

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<222> (32)

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<220>

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<222> (115)

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<220>

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<222> (154)

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3530

<220>
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 <222> (172)
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<220>
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 ccggcagggg cttggggcag ccnccctct cctccacca gaccaagtgc ctganganc 120
 gcctgccttc ttccatctga aaaagcacc tcntcccc tttgacttgc angagccacc 180
 aggganca 188

<210> 3887
 <211> 542
 <212> DNA
 <213> Homo sapiens

<400> 3887
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 aaaagaaaaa atgctttata gcaaatgaa agagaacatg aaatgcttct ttctcagttt 120
 attggttgaa tgtgtatcta tttgagtctg gaaataactg atgtgtttga taattagttt 180
 agtttgtggc ttcatggaaa ctccctgtaa actaaaagct tcagggttat gtctatgttc 240
 attctataga agaaatgcaa actatcactg tattttaata tttgttattc tctcatgaat 300
 agaaatttat gtagacgcaa acaaaatact ttaccctact taaaaagaga atataacatt 360
 ttatgtcact ataattcttt gttttttaag ttagtgtata tttgtttgtg attatctttt 420
 tgtggtgtga ataaatcttt tatcttgaat gtaataagaa tttggtggtg tcaattgctt 480
 atttgttttc ccacggttgt ccagcaatta ataaaacata acctttttta ctgcctaaaa 540
 aa 542

<210> 3888
 <211> 561
 <212> DNA
 <213> Homo sapiens

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<220>
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3531

<222> (473)

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<222> (551)

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<222> (552)

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<400> 3888

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tcagcgtggt ggctcactgga aagagccttt tcctttctct tttcttactc tccccctcatg 120
gtgttccccct cttaaaggag aggagctttt aatttacact taccacctca tttgcttttc 180
tggaggccat gcaatatagg cgggactaca gagttaatct cttttttaca aatgaggcca 240
agagaagcct nattgggttca cagtcacatg gctcactatg tccacccttg tattctcaga 300
tgcaggacaa ttgcatttta gttttatttt gtggagggtgc agaataattta ctctttctgt 360
ccaacccttg attctgccga ggaagacact gatgggttga tgagtgattc agctgttttg 420
gctaaggggc ttttgaggct gatggcaggg gtttgatnaa ttcaaagtag ctntagacat 480
tatcacagac tgaatagatc tttaactggc tcctacatgt gtgntttcaa atgtgtatag 540
aatgctatng nnattaaata a                                     561

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<210> 3889

<211> 103

<212> DNA

<213> Homo sapiens

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<220>

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<222> (19)

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<220>

3532

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<222> (64)
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<220>
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cgnntaagag aagttgtaaa gtatgtatta ttcggccctg gnt 103

<210> 3890
<211> 73
<212> DNA
<213> Homo sapiens

<220>
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<222> (5)
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<220>
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<220>
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<220>
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<222> (73)

3533

<223> n equals a,t,g, or c

<400> 3890

ttacnaaana gaggatttac aaaaaccagc tagaggatat gatggaaaga agcaaatgaa 60
anncgggcag gcn 73

<210> 3891

<211> 338

<212> DNA

<213> Homo sapiens

<220>

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<220>

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<222> (79)

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<221> misc feature

<222> (82)

<223> n equals a,t,g, or c

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<222> (85)

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<222> (89)

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<222> (115)

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<221> misc feature

<222> (158)

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3534

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<222> (165)
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<220>
<221> misc feature
<222> (277)
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<220>
<221> misc feature
<222> (313)
<223> n equals a,t,g, or c

<220>
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<222> (327)
<223> n equals a,t,g, or c

<400> 3891
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cctgacccaa cttgacttnc tncntagnt gagccaccgc accttgctgc ccctntcctc 120
ccctttttgcc tctgtcaaat gacctactct gccctntntc ccagntgctg ctagaccag 180
agcacttgga gcaaccagct ggagggtttg gtaggctcac ccttggttgctg ctgatttctt 240
ggctccacag ttctcaatgg nttgagccag ctcanntctt ttctcacagg gaactggagc 300
aaaaatcctg tangagcaat tcttgnggtt ggacaccc 338

<210> 3892
<211> 70
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (49)
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<220>
<221> misc feature
<222> (53)

3535

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (56)

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<220>

<221> misc feature

<222> (61)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (69)

<223> n equals a,t,g, or c

<400> 3892

gctgttttta aaaagtaaag ttcttagagg ataaaaacag ccaccaant ggngcntttt 60
naaggatcna 70

<210> 3893

<211> 132

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (10)

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<220>

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3536

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<400> 3893
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ctggagagaa aggattagga tagaatggga gacnngcttt gcacaannat tccanggtat 120
aggcgccaan gg 132

<210> 3894
<211> 310
<212> DNA
<213> Homo sapiens

<220>
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<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

<220>
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<220>

3537

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<220>
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<220>
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 <223> n equals a,t,g, or c

<220>
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 <223> n equals a,t,g, or c

<220>
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<220>
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 <223> n equals a,t,g, or c

<220>
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 <222> (294)
 <223> n equals a,t,g, or c

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 cacgcgttcg tgtttnctgt agactgaact gctagaaaga tgagatgtta aaattcaata 120
 taaacttgaa gaattttgta taattataat tatacaaaat ataggtaggg tgcacaatgt 180
 tatcaaatgt tnatcagnat caaatgaaan cacctttgat aagctgcttt tgaaaatgct 240
 gcctttttta agaaatcgnn aattattgac atctgacagn actaacattg nggnagctgc 300
 tctacagatg 310

3538

<210> 3895
<211> 349
<212> DNA
<213> Homo sapiens

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<220>
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<220>
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3539

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<400> 3895
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ggggtcgaccc acgcgtncgt gtggttccac ccaatatctc tcaggcatct acaaaggctc 120
tctcttcctc cgtcagagtc tggactgggt tcactgggtc ttgntnnatt gactgancan 180
atgtgattga caacagctgt gcctaggggt taacctagtg cccctgcta gatcaagtac 240
ctgactccca gcccagaatt gcccatctca gcaaaggagg gtggcattga gacttangtg 300
gatcataggc actnnecatct tcatgagncc catcgacacat tanaataaaa 349

<210> 3896
<211> 69
<212> DNA
<213> Homo sapiens

<220>
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<220>
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3540

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<220>

<221> misc feature

<222> (53)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (59)

<223> n equals a,t,g, or c

<400> 3896

gccgggngat cctgtctgtg aggccaaggg cggcatgacc cgaggtggca agnagagcnc 60
gagaacgac 69

<210> 3897

<211> 221

<212> DNA

<213> Homo sapiens

<220>

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<220>

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<222> (43)

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<220>

<221> misc feature

<222> (59)

<223> n equals a,t,g, or c

<220>

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<222> (74)

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<220>

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<222> (80)

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<220>

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<222> (94)

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3541

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<222> (155)
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<220>
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<223> n equals a,t,g, or c

<220>
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<220>
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<220>
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ggccattggg ccnnaaaggm aaagggcatt ttgncttggc tttgggaaaag gtttggttaa 120
aatggggaac ccggttttaa aattaaacct tgggnttttt ttaaacccaa aggaaaaang 180
gggtttttcn ttttgaaaaa anaaaaactt ttgggncccc c 221

<210> 3898
<211> 237
<212> DNA
<213> Homo sapiens

<400> 3898
ggcctcctcc agcagagacc ctcggaaccc tgcagggcct ggacttgggg tgaacagggc 60
ttcagtcagc gcaagtattc catttgcatt tggtaatttt tcatgccacc tattttatgaa 120
tatataaatc tttataccaa atctattttt taaaacatgg aaaagttgcc tttatggaaa 180
cttggcagag ccagagtgtg cacatttccta aaccattaaa cagatttcta taacaaa 237

<210> 3899
<211> 53
<212> DNA
<213> Homo sapiens

<220>
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3542

<220>
<221> misc feature
<222> (40)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (42)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (46)
<223> n equals a,t,g, or c

<220>
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<222> (51)
<223> n equals a,t,g, or c

<400> 3899
ganacaattt ggcaccactt tgggggcttt tggaaaatcn tncccnagaa ngg

53

<210> 3900
<211> 479
<212> DNA
<213> Homo sapiens

<220>
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<220>
<221> misc feature
<222> (371)
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<220>
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<222> (443)
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<220>
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<220>
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3543

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<220>
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<222> (456)
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<220>
<221> misc feature
<222> (471)
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catctttttcc aaacaccact gaaatcatgg actaggacaa ggtagccca tgagtgttta 120
gaccagtgag gtgagcagct gctggggaca ggacccttgt ctggtatcga tggcagggaa 180
ggctgtgagc ctcccctcgt gtgggcatca gcctcagcct ccagtgggg gtcacccagg 240
gagcatatct cctggtgaga agtacaggag cttcacattc cctggatacn gtcccagccg 300
aaatgttcac cgtgaatccg gcaacctgtg gagctgattt ccatttctaa ggaacgaggg 360
gggatgggga ngaaccccc aggacagcac caacagtcct gcgggggacct tttcccgga 420
acccggtctt cttcgggtggt gangcatgtg gcnnngntccc gaaaggcccc ngggggggga 479

<210> 3901
<211> 421
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (150)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (197)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (217)
<223> n equals a,t,g, or c

<220>
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<222> (237)
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<220>
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<222> (260)

3544

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (286)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (331)

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<220>

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<222> (397)

<223> n equals a,t,g, or c

<220>

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<222> (412)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (418)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (421)

<223> n equals a,t,g, or c

<400> 3901

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ggcaggcacc tcaagaagat ggaccttgga ccaaggctgt aactccacct gtgaaagatg 60
ataatgaaga tgttttctct gccagaattc agaagatgct gggaagctgt gtatctcatg 120
caacttttga tgatgatctt cctgggtgtan gcaatcttag tgaattttaa aagcttcctg 180
agatgataag accacanagt gccatatcaa gctttanagt gagatccccct ggtcccnac 240
cacaagggct actggcacan ttatgtaaaa ggcatactga ctcttntagc tctgatatgc 300
aagcctgttc tcaagacaaa gccaaaatat ntcttggttc cagcatagat tcagtcagtg 360
aaatggcctc ttcttagtga agggagtctc tctgaanaag agggataccc tngatggnc 420
n

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<210> 3902

<211> 421

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (383)

<223> n equals a,t,g, or c

3545

<220>
<221> misc feature
<222> (410)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (420)
<223> n equals a,t,g, or c

<400> 3902
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tgggtgggcta ttgtgtagcc ttactgcccc agagtgcctg ttagccaaat atttcccctc 120
tgataggaat attttctaag aatcagctga taacttgcgt gctggacett gttatctgtg 180
cccctgggag acacacgttt tcttgggtttt gaaaacctga aacacaggca actttacatt 240
ttggggaatt agctgatgcc tcctgaagcc tgaggagggtg gcgggggaata tgagcgggtgc 300
tgtctctctc aaaagtgtcc tttagatgat tccccctcct agggctgcct gcaggggctg 360
tatgcttggg aaagattgtg tangtgacag tgaatcagaa tgaagtggtn agattttgtn 420
t 421

<210> 3903
<211> 51
<212> DNA
<213> Homo sapiens

<220>
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<222> (19)
<223> n equals a,t,g, or c

<220>
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<222> (20)
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<220>
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<220>
<221> misc feature
<222> (41)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (47)
<223> n equals a,t,g, or c

3546

<400> 3903
gagacttatt taattatgnn cnccatggaa atcactctcc ngttggncta t 51

<210> 3904
<211> 139
<212> DNA
<213> Homo sapiens

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<220>
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<220>
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<222> (19)
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<220>
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<220>
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<220>
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<220>
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<222> (129)
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<220>
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<222> (130)

3547

<223> n equals a,t,g, or c

<400> 3904

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tggaantcnc tagctttgnt gcncaagtgt atgccgtgga tggactanat gagttactct 60
tcctatggtg aatacgacgc atgggcgcac atataaagac tggggtggna tagatcccag 120
aaanggtcnn tacgaggtt                                     139

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<210> 3905

<211> 475

<212> DNA

<213> Homo sapiens

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<220>

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<222> (432)

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<220>

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<222> (441)

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<220>

<221> misc feature

<222> (467)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (473)

<223> n equals a,t,g, or c

<400> 3905

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ggctgacttg cttattgagg tcggcagctc ccgagaagca ggagaagcag agttttttgca 60
gacagaccca cgaagtcaag catgcggagt gcagccaagc cctggaaccc agccatcaga 120
gcagggggcc acggcccaga ccgggtgcgg cctctgcctg cagcctcttc cggcatgaag 180
agttctaagt cttcaacttc cttggctttt gagtcccgac tcagcaggct caagagggcc 240
agcagtgagg acacgctcaa caagccagga agtaccgctg catcgggggt ggttcgcctg 300
aagaagaccg ccactgccgg agccatctcg gagctcacgg agagccgcct gaggagcggc 360
acaggggcct ttacaacaac taancggaca ggcattccag cccacggga attttcagta 420
actgctcaag anagaggtct ngtgccacgt ggtccctcca acctcangaa atnag      475

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<210> 3906

<211> 69

<212> DNA

<213> Homo sapiens

3548

<220>
<221> misc feature
<222> (46)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (48)
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<220>
<221> misc feature
<222> (58)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (59)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (60)
<223> n equals a,t,g, or c

<400> 3906
gctcaagggtc tcctccttcc ctcccccccc ccccccgta cttggtnat caaccttnnn 60
ggcatttgc 69

<210> 3907
<211> 77
<212> DNA
<213> Homo sapiens

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<220>

3549

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<222> (39)
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<220>
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<222> (65)
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<400> 3907
nttgttactc tggttactgg ggncgtgceen cgctggcana gagccgccgc cgcgagggat 60
gctgntgagg aagccgt 77

<210> 3908
<211> 436
<212> DNA
<213> Homo sapiens

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<220>
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<222> (420)
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gagaattcctt ccacatgtac ttctgtgctt agaacatctt tacggaccta agcgctggag 120

3550

acgttgctgc atgtcggctg ggTTTTTTTT ttcatacacc cgagcacgga aaaactaacg 180
caaaattgta ttttcttacc tagtggaat ctgaaatgac tgcaaattcc tagtgaatgt 240
acaggtttgc tttcgtgtcc ctctttgggt gctttaaaaa gtgacgtgta atttctgacc 300
catgtttaat ctgtataaaa aaacttctgc cccagttttc tctgnccct ataagagcca 360
acttgagttt atgccggttg ncattataat tcaataatct tttttcantt aaaaaanaan 420
attaaaaaag ggcggc 436

<210> 3909

<211> 104

<212> DNA

<213> Homo sapiens

<220>

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<220>

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<222> (77)

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<222> (88)

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<222> (89)

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<222> (99)

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<220>

<221> misc feature

<222> (102)

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<400> 3909

tnaataccct tggactatcc gactacttag ggaaagctgg tacgcctgca ggtaccggtc 60
cggaattccc gggtcgntcc acgcgttng ttatatatnc anac 104

<210> 3910

<211> 87

<212> DNA

<213> Homo sapiens

3551

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<220>
<221> misc feature
<222> (40)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (46)
<223> n equals a,t,g, or c

<220>
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<222> (65)
<223> n equals a,t,g, or c

<220>
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<222> (78)
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aattcccacn gactatttcgg aaagctgccc gcctgcaggn accggncggg aattcccggg 60
tcgtgccacg cgtttttnac agacgct 87

<210> 3911
<211> 423
<212> DNA
<213> Homo sapiens

<220>
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<220>
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<222> (29)
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<220>
<221> misc feature
<222> (53)
<223> n equals a,t,g, or c

<220>
<221> misc feature

3552

<222> (54)
<223> n equals a,t,g, or c

<220>
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<222> (55)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (103)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (139)
<223> n equals a,t,g, or c

<220>
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<222> (179)
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<220>
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<222> (355)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (357)
<223> n equals a,t,g, or c

<220>
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<222> (383)
<223> n equals a,t,g, or c

<220>
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<222> (385)
<223> n equals a,t,g, or c

<220>
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<222> (412)
<223> n equals a,t,g, or c

<400> 3911
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tgatatagtc tcatttttta ttgtcctgta atggaacagt agnaaattca ctaaactttt 120

3553

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gtgttcagag ttaaattgnt ctcagtactt tcaatgtagg ggaatgtaat aaacatagn 180
tgtatgtttg ggttttaatt acacatttta tatatgagcc atttagatat gcagtgttaa 240
ttctatactg catttgaagt gtatgtaact tagcttatgt taatgcagtc atgaagttgg 300
tttgctccag catcacggta gtcttttaaac attcttttag tgaaattgtc attgntntat 360
cagtgcta at gtgtgcaagc agngntttta cctgcttttc tcctggcatc anaaagtggc 420
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<210> 3912

<211> 72

<212> DNA

<213> Homo sapiens

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<220>

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<222> (16)

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<220>

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<220>

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<222> (36)

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<220>

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<222> (41)

<223> n equals a,t,g, or c

<400> 3912

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nttaataagc tagaantatt acaaccctg tgtntntggg ncttatcaaa tacttagtat 60
catggggggt gg 72

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<210> 3913

<211> 106

<212> DNA

<213> Homo sapiens

<220>

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3554

<220> .
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<220>
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<220>
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<222> (104)
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ggggggggggc agtataccac ngaaatganc tatancaaag nctnta 106

<210> 3914
<211> 701
<212> DNA
<213> Homo sapiens

<220>
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<220>
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<222> (540)
<223> n equals a,t,g, or c

<220>
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<222> (543)
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<220>
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3555

<222> (561)
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<220>
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<220>
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<220>
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<220>
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 <223> n equals a,t,g, or c

<220>
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 <222> (686)
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 ggcccttggg ctcccttgccc tcagaagagg ggccccgtca ccctcagaag agggggccccg 120
 tcaccctcag gtctgggcta gcccggacta gggaggtttc ccctcccttc tagacacttc 180
 catggcccca gctgtcctga gacgcggctc cagaatccaa ccaggcctga atggcacctg 240
 ccctctcagc gtggagcgtt tgccaagagc acgccgactg cagggcgcca ggctagagcc 300
 tggaaaatcta agcggggccc ggccctgcca gctccatgga gtctaggggt cacaacgagg 360
 caccgcaaaa acccaggggg tgacacagga gggaaggggc ccaatggagc cagggcaggg 420
 tgctgtgtgc acccaacttg actggcctgg ccttggctcc ctgccagccc cctggcaggt 480
 gacactgtgt gtaggcagag cccgagcctg ggctgcaagg cattccacac acgcagnatn 540
 canagagagg atccagggtca nggccccggga aagccttgca tgcttgggac acaagtcgtt 600
 cttggaaaag gacaagcttg gaagggggga caagtnccca aaanacaacgt taccggcttg 660
 ggaattttcc tttnggccct tgancnaaaa agccttaaaa a 701

<210> 3915
 <211> 70
 <212> DNA
 <213> Homo sapiens

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3556

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<222> (58)
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<220>
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<222> (69)
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aacacattnt 70

<210> 3916
<211> 88
<212> DNA
<213> Homo sapiens

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<220>
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<220>
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<400> 3916

3557

gctcaagggtc tcctccttcc ctccccccnc ccacctagan tgggcctcat tgggcagaag 60
ttgcagnctt tnttanattg cctgcaaa 88

<210> 3917

<211> 394

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (11)

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<220>

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<220>

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<222> (231)

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<222> (320)

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<222> (346)

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<220>

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<222> (375)

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<220>

<221> misc feature

<222> (392)

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<220>

<221> misc feature

<222> (393)

3558

<223> n equals a,t,g, or c

<400> 3917

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cctaagtcaa taacctgacc ttagaaaaatt gtgagagcca agttgacttc aggaactgaa 120
acatcagcac aaagaagcaa tcatcaaata attctgaaca caaatTTaat atTTTTTTTT 180
ctgaatgaga aacatgaggg aaattgtgga gttagcctcc tgtggagtta ncctcctgtg 240
gtaaanggaa ttgaagaaaa tataaacacc cttacaccct tttttaatct ttgccattta 300
aaagttctgg cttaactttt gaattccatt tagagaaaaa aattcnttgg taccaggaa 360
ttcatttcaa tttcnaattt gaaatagggt gnng 394
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<210> 3918

<211> 382

<212> DNA

<213> Homo sapiens

<220>

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<222> (271)

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<220>

<221> misc feature

<222> (280)

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<220>

<221> misc feature

<222> (320)

<223> n equals a,t,g, or c

<220>

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<222> (335)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (351)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (367)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (379)

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3559

<400> 3918

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actgacagac cttaatctta attactgctg tggctagaga gtttgaggat tgctttttta 120
aaaagacagc aaactttttt ttttatttta aaaaagatat attaacagtt ttagaagtca 180
gtagaataaa atcttaaagc actcataata tggcatcctt caatttctgt ataaaagcag 240
atctttttta aaagatactt ctgtaactta ngaaacctgn catttaaate atattttgct 300
ttagggaaaa gcttttggtt gtgttcgtgt tttgnttggg tcacttggtt nccttccagc 360
cccaaancct ttggtcttnt cc 382
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<210> 3919

<211> 382

<212> DNA

<213> Homo sapiens

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<222> (16)

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<220>

<221> misc feature

<222> (353)

<223> n equals a,t,g, or c

<220>

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<222> (373)

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<220>

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<222> (376)

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<220>

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<222> (381)

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<220>

<221> misc feature

<222> (382)

<223> n equals a,t,g, or c

<400> 3919

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cgcgtccgta atgatctgca tcagttgtaa aggggaattg gtatattcac agactgtaga 120
ctttcagcag caatctcaga agcttacaaa tagattttcca tgaagatatt tgtcttcaga 180
attaaaactg cccttaattt taatatacct ttcaatcggc cactggccat ttttttctaa 240
gtattcaatt aagtgggaat tttctggaag atgggtcagc tatgaagtaa taggagtttg 300
cttaatcatt tgtaattcaa acatgctata ttttttaaaa tcaatgggga aanccttagac 360
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3560

taatttttaa atngtnccat nn

382

<210> 3920

<211> 241

<212> DNA

<213> Homo sapiens

<220>

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<220>

<221> misc feature

<222> (33)

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<220>

<221> misc feature

<222> (44)

<223> n equals a,t,g, or c

<220>

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<222> (56)

<223> n equals a,t,g, or c

<220>

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<222> (72)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (144)

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<220>

<221> misc feature

<222> (175)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (216)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (233)

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3561

<220>
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cattcgactt antcttgact tctgtgtcat tctttaaacc ttttatggct agagtttcca 120
ctatcccaat caaagaattc agtncacatc ccagaatcca taaatgtgtt ctggncceact 180
ctgtaataag gcaccaagaa ttaccactaa ttcatncaga ttttacctat canaatanca 240
c 241

<210> 3921
<211> 110
<212> DNA
<213> Homo sapiens

<220>
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<222> (7)
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<220>
<221> misc feature
<222> (50)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (61)
<223> n equals a,t,g, or c

<220>
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<222> (71)
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<220>
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<222> (94)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (104)
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<400> 3921
gcggaanatg gcccgcctgc aggtaccggt ccggaatttc cgggtcgatn tacgcgaccg 60
ntttaagacc nggtgataac tgagcctcaa tggngcagaa actnggggct 110

3562

<210> 3922
<211> 138
<212> DNA
<213> Homo sapiens

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<222> (9)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (13)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (16)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (26)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (70)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (102)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (120)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (122)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (133)
<223> n equals a,t,g, or c

3563

<400> 3922

gaagaacgng aangangggag accgcngggga gcagagcaaa accagggaac ccaacaaaca 60
aaagaacggn gccgaagaac gggaccgaac cccacccgaa gngccaagaa acccgaggan 120
anccggaccc gcnacgcc 138

<210> 3923

<211> 263

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (4)

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<220>

<221> misc feature

<222> (30)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (39)

<223> n equals a,t,g, or c

<220>

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<222> (48)

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<220>

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<222> (84)

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<220>

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<222> (110)

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<222> (126)

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<220>

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<222> (129)

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<220>

3564

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<220>
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<220>
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 <222> (221)
 <223> n equals a,t,g, or c

<220>
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 <222> (263)
 <223> n equals a,t,g, or c

<400> 3923
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 ggaatcccag gcaacgcagg agcngatgga ggaccagggc ccaggggctn gccaggagac 120
 gcaggncgng aagggnaccc aggacccccca gggnacatag gacccccgagg atccaaaggn 180
 gcagngggcc ancctggccc agatggatcc ccaggaccca ncggcctgcc agggccagat 240
 gggccccctg gggaaagggg ccn 263

<210> 3924
 <211> 296
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (13)
 <223> n equals a,t,g, or c

3565

<220>
<221> misc feature
<222> (34)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (53)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (73)
<223> n equals a,t,g, or c

<220>
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<222> (83)
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<220>
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<222> (106)
<223> n equals a,t,g, or c

<220>
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<220>
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<220>
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<222> (165)
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<220>
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<222> (191)
<223> n equals a,t,g, or c

<220>
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<222> (196)
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<220>

3566

<221> misc feature
<222> (261)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (263)
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<220>
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<222> (273)
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<220>
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<220>
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<222> (284)
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<400> 3924
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cggggggggg ttnccgggaa acntctccaa accggggccc gggttnaaac cgggnttttt 120
tttgggaaag anaaattgggt aaaattgggg gggcaattaa aaggncctt ttttttaaac 180
caaaggggcc naaccnaaat gggggcccaa atgggggtttt taaagggggg cccaaaaagg 240
gttaaatttc caaaaaaggg ntnttaaaaa ttntttttnc ccnccttg ggtgtt 296

<210> 3925
<211> 152
<212> DNA
<213> Homo sapiens

<220>
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<222> (15)
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<220>
<221> misc feature
<222> (35)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (58)
<223> n equals a,t,g, or c

3567

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<222> (100)
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<220>
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<222> (135)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (136)
<223> n equals a,t,g, or c

<220>
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<222> (142)
<223> n equals a,t,g, or c

<400> 3925
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cctctcacat gattacttga cagctaagca tctgattggn ttactgctgt accactgagc 120
tgaaatgccg tgtgnnccat tnatgtaaaa tc 152

<210> 3926
<211> 104
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (14)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (44)
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<220>
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<222> (46)
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<220>

3568

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<400> 3926
gggtcccgaat tccnggggtcg acctacgcgc ccggggatttc agancnattt ggccttaata 60
catttccagn gtgaccngca gcaggctttt ttcccccaag aaga 104

<210> 3927
<211> 99
<212> DNA
<213> Homo sapiens

<220>
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<222> (6)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (19)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (37)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (38)
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<220>
<221> misc feature
<222> (56)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (66)
<223> n equals a,t,g, or c

<220>
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<222> (79)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (83)

3569

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (97)

<223> n equals a,t,g, or c

<400> 3927

aacgangaac ccttagcang aactcccggg aaatccnngc aaacttttcc ggaaanctgc 60
cccgcntgca ggtaccggnc cgntaattcc cgggttnac 99

<210> 3928

<211> 99

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (19)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (20)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (41)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (44)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (73)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (87)

<223> n equals a,t,g, or c

3570

<220>
<221> misc feature
<222> (88)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (97)
<223> n equals a,t,g, or c

<400> 3928
gttgngaac ccttaagann gactcccggt gaatccccgc naanttttcc ggaaaacagc 60
cccgccggca ggnacacggt ccggaanncc cgggttnac 99

<210> 3929
<211> 314
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (314)
<223> n equals a,t,g, or c

<400> 3929
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aatactgtag tgctaagccc aaaacattta agtcggatga tcgaggataa tccttttagaa 120
ttatggaaac ttggaattgg aacacagttt tagtagcctt tagaacaatc agcacacgtc 180
aacaggacac tcccaccaga gcagtctggt tgaggcattt cttgaagcct aaatccaaca 240
agaaggccca gctcaaaaat atggcagcct cactcacggt tccccattat gttgccttcg 300
aatccttgaa ctcn 314

<210> 3930
<211> 298
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (293)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (294)
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3571

<220>
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cttcaccaga accagttaag agacaactat caattcttga gacccaaatt ataaggggccc 120
tgccctgtac tgaagaaaag gggagcaciaa ggccttaatg gacattgact tgtgaaaacg 180
caaacatgaa tatggttgga gagccctgga ttaggagggg gacatgggga aggcagaggc 240
tggcaccatg gtgactgcca cataataaag tgggtgatttg gaaaaaaaaa aanngnnn 298

<210> 3931
<211> 114
<212> DNA
<213> Homo sapiens

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<220>
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3572

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<220>

<221> misc feature

<222> (113)

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<400> 3931

tntaacattg ggacttttnc a gactntata gctatatagt gcctattata ctgcangtac 60
ttacaaactc atttataant atacgtacaa aatggaaaaa tagaaaagta ggng 114

<210> 3932

<211> 99

<212> DNA

<213> Homo sapiens

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<220>

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3573

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aattccccgn tcgnccccacg cntcntnaaa aacaanaaa 99

<210> 3933
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<212> DNA
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3574

cccgggttcga cccacgcttt cntgacnatg ngtgaagga

99

<210> 3934

<211> 99

<212> DNA

<213> Homo sapiens

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<222> (74)

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<220>

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cccacngtc cganttnant ttcaaacc aa aaaaaaaaaa

99

3575

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<213> Homo sapiens

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<220>
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<223> n equals a,t,g, or c

<220>
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<400> 3935
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<210> 3936
<211> 88
<212> DNA
<213> Homo sapiens

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<220>
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<222> (45)
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<220>
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<222> (55)

3576

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<220>

<221> misc feature

<222> (63)

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<400> 3936

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gctttcttat tagaaatatg atacgaatgt gtnagcanac gacangtgcc tttanaatta 60
canttctaac ttacatatatt tttgaaag                                     88
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<210> 3937

<211> 80

<212> DNA

<213> Homo sapiens

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<220>

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<222> (54)

<223> n equals a,t,g, or c

<220>

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<222> (63)

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<220>

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<222> (68)

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<400> 3937

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ggatantaga tgattgggta aaccccctaa tcagatagta gatgattggt tttnaatagg 60
ttnanccnat gatctactat                                             80
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<210> 3938

<211> 66

<212> DNA

<213> Homo sapiens

<220>

3577

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<220>
<221> misc feature
<222> (34)
<223> n equals a,t,g, or c

<400> 3938
ctgatcaaga atttgngtg gacgtaggcc ctgntgagct tttataaac caaactctat 60
atgaaa 66

<210> 3939
<211> 117
<212> DNA
<213> Homo sapiens

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<220>
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<222> (54)
<223> n equals a,t,g, or c

<220>
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<222> (82)
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<220>
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aaaatgaaac atattatgag aggatataa gaataaattt cnaatactca tggnccttact 60
gtattcatga atcacatagt tncaacgacn tcacacctgg gaaagggaat attgcta 117

<210> 3940
<211> 189
<212> DNA
<213> Homo sapiens

3578

<220>
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<222> (177)
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cagtaagaag aaggaaaaaa gcaaagtgc aaacagtact atcataagcc nagaaaaaaa 120
ctgcactgga aagaaatata ccaaactgtn ttntaaaaaa aaaaagnggc taggttnggg 180
tactagaat 189

<210> 3941
<211> 399
<212> DNA
<213> Homo sapiens

<220>
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<220>
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<220>
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3579

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<220>
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<222> (390)
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<220>
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<222> (393)
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<220>
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<222> (396)
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agagagaggc cgatccgtgt tccccgtgtt gctatgtaag gaggtgcggg accgaggaac 120
ctagggtgtgg acagggacag gcaaggcggg ggacgaagag aaatgaaagc cacatcgggtg 180
gcggtatgttc tgaacacaac tcgtctgcta ccgcacgttc cccgctccgc actcancgga 240
tccccgggacg gcagcagggtg gctcctgnac gtgcgcgggc tcctgcaang tgcaaagagt 300
gcaaattgcac cttctgcaag aagagctgct gtctcctgctg ccccntgggc tgtccaagtg 360
tgcccatgct gcgtctgnca aggggcatcn ganaantgc 399

<210> 3942
<211> 146
<212> DNA
<213> Homo sapiens

<220>
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<220>
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<222> (71)
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<220>

3580

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<222> (133)
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<220>
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<222> (137)
<223> n equals a,t,g, or c

<220>
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<222> (140)
<223> n equals a,t,g, or c

<400> 3942
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tattgttttaa ngtttcctca aactgtgatt tttctgaaca caataaacta tnttgatgaa 120
aaaaaaaaatt aantaanaan taaaaa 146

<210> 3943
<211> 353
<212> DNA
<213> Homo sapiens

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<220>
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<222> (11)
<223> n equals a,t,g, or c

<220>
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<220>
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3581

<222> (22)
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<220>
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<222> (53)
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<222> (75)
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<222> (86)
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3582

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<222> (205)

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<220>

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<222> (234)

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<222> (273)

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<222> (294)

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<220>

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<222> (307)

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<220>

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<222> (341)

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<220>

<221> misc feature

<222> (353)

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<400> 3943

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gaanntgaaa nctntctgac angaaatagt nctggatggt ttgaagatct gcngngaaaa 60
ataagtgtgc acctnagacc ttcagntagn cttttattta tttagaataa aaaatagntt 120
gataacctac cagagttagt gcttntttta aaacactcct tggaaagatg gggactgtcc 180
cttangaaag ccatanaagt gattnccaat actttgnaat tgcttttgat tttnagggtcc 240
tttggaaaca atgtgtgatg ttatgtctga tgntgtgttc ttagagctgt gaanagtttg 300
aaaaatntca aggggtttat ttaaattgat aattatctgg ntgaaattat ggn 353

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<210> 3944

3583

<211> 52
<212> DNA
<213> Homo sapiens

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<220>
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<222> (15)
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<220>
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<222> (20)
<223> n equals a,t,g, or c

<220>
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<222> (30)
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<220>
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<222> (34)
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<400> 3944
ggacatacac ngccnacagn ctgcgggcggn tganacctat actgaccctg tg 52

<210> 3945
<211> 456
<212> DNA
<213> Homo sapiens

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3584

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<220>
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<220>
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<220>
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<220>
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<220>
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 <222> (454)
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<220>
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 <222> (455)
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 ttacactagc ctttttagatn tactgtagac atctgtgaaa aattatgaat tggcctttat 120
 tacaagactt tgttttcaaa cctttatttc tgttccaatg taaatgataa tcgaacttta 180
 ctggagaaaa gacccatgat tttaaata gttntatgtc agcttatagt ttacatcag 240
 agtccatata gctgttagaa agttatgtgc tactgacaaa ataacagttg gcaaaacata 300
 agacaaaatc tacaatttta ttcacaggat ctaactaatg taccattatt attaccaatt 360
 gatctcagtg tgctataatt ttggtaacaa tttctttgat atgcttttaa aaatatatat 420
 atatttacaa ataaaggmat aatttttaan ananna 456

3585

<210> 3946
<211> 146
<212> DNA
<213> Homo sapiens

<220>
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<220>
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<220>
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<222> (141)
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<400> 3946

3586

cnncnctnatgg aatctcnact atagggttaag ctggtacgcc tgcaggtacc ggtccggaat 60
tccccgggtcg acccacgcgt ccgtgaaatt nagttatagt ttaatctttg taatctcact 120
aatgggtttt atanatgaan ncggaa 146

<210> 3947

<211> 68

<212> DNA

<213> Homo sapiens

<220>

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<222> (15)

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<220>

<221> misc feature

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<222> (27)

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<222> (29)

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<222> (62)

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<400> 3947

gcaaagaggg cttcnaaaac tacngancng taagggcggg actcaccata gaatgcaatg 60
antatgtg 68

<210> 3948

<211> 335

<212> DNA

<213> Homo sapiens

<220>

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<220>

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<222> (276)

3587

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<220>

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<222> (314)

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<222> (330)

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<220>

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<222> (334)

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<400> 3948

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gctgtactgc	tgggcaccct	gggtccaaac	ccacctccat	ctggacctgc	taggtgccat	120
tgtccaggcc	tttcctccag	acagctcttt	gttagacagt	gcttcccatg	ctgactgctg	180
tccccagaag	cggaggctcc	atcacaggcc	cccatgccca	gcttgccctt	ttgtgcaggc	240
ccagtggagc	aggcagcaag	taaaggagga	nctggncacc	tggctggggac	cattgacact	300
ggctgagcta	cagngctggc	tgggcattgn	tggng			335

<210> 3949

<211> 179

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

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<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (25)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (68)

<223> n equals a,t,g, or c

<220>

3588

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<222> (94)
<223> n equals a,t,g, or c

<220>
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<222> (145)
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<220>
<221> misc feature
<222> (163)
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<220>
<221> misc feature
<222> (169)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (171)
<223> n equals a,t,g, or c

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caagtctnac atggatatgca ttgagacata cganagactg ctataacctca ataagtattg 120
aaaatccatt attaccata agggncatct taattcattt tanggaatna nattcatgg 179

<210> 3950
<211> 104
<212> DNA
<213> Homo sapiens

<220>
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<222> (1)
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<220>
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<222> (27)
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<220>
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3589

<222> (76)
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<220>
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 <222> (93)
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<220>
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<400> 3950
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 tatacacaat cattgncatt tactttatga aanggttagga gatn 104

<210> 3951
 <211> 314
 <212> DNA
 <213> Homo sapiens

<220>
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<220>
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<220>
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 <223> n equals a,t,g, or c

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 gccccantgg accacctccc ttccctgag gcagggagcc cagagctggg tctgctggtg 60
 cctggcctgc ggcagctgct tacacaacag tgcacagca ggtgctccca gggcttcttg 120
 gctcctgtga ccgctgcctc cccagtgtg catcgcccg gggcaccag gggatggctg 180
 tctggaatag aggcagcagg gtccctgcacg ctgttcatgt actatccgtc cgtggggcgt 240
 gcagaacgtg ctgccggctc ttccctggctg cagccttctc cgacccagtc ctccagtgga 300
 gggggggatc cntn 314

<210> 3952
 <211> 157
 <212> DNA
 <213> Homo sapiens

<220>

3590

<221> misc feature
<222> (147)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (148)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (150)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (153)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (154)
<223> n equals a,t,g, or c

<400> 3952
ggataattat ggataatctt tgatcctaca ccagaactct gcaaattggt tttttaagg 60
ttaattacaa tgtggaattt gaaactatat caatgaactt gtactcttac attaaaagtc 120
attgcttttac cttcaaaaaa aaaaaaannan atnnaaa 157

<210> 3953
<211> 130
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (4)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (12)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (55)
<223> n equals a,t,g, or c

<220>
<221> misc feature

3591

<222> (61)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (83)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (102)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (124)
<223> n equals a,t,g, or c

<400> 3953
caanaacctc anacttttagg taaaatcggg catcaagcat aatcccactg tgatnattca 60
nggtccaatt aaaaatttga cgnatgattc caaatgtgac gngaagtgaga tcataaagggt 120
ctantatctc 130

<210> 3954
<211> 392
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (194)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (359)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (375)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (383)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (386)

3592

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (389)

<223> n equals a,t,g, or c

<400> 3954

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gccagcctct ctgtggtaca tcgtgtattg cacggagtc cttttcttcc agagatcttc 60
cttgggagcc ttttcctccc gcgcgtcccgc tctcgggtgcc gccttttgct cccgcgcgctc 120
ccgtctctcc acgccgaactt ttccctcccgc gcgtcccgtc tctccacgcc gccttttcct 180
cccgcgcgctc ccgncctccc gccgcctttt gctcccgcgc gtcccgtctc cgcgccgact 240
tttccctccc cgcgtcccgt gtccatgtct cctccttgta acatctggag agatttcctt 300
cactttgtgc ctttttctcc atcgattgat ttctttgttt tacgtttaac aattaaagnc 360
ttaatttcta agaanaaaaa aantancana aa 392
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<210> 3955

<211> 138

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (14)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (56)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (67)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (74)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (101)

<223> n equals a,t,g, or c

3593

<220>
<221> misc feature
<222> (108)
<223> n equals a,t,g, or c

<400> 3955
gggtncataa tttngttcat aagactgaac tctgatgggt gacttctaca acttgnatat 60
tcagacncga agangaccaa atattcatga aatactggct ntgtgctnat atctcctata 120
agtccgaata tgctgtga 138

<210> 3956
<211> 221
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (30)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (74)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (77)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (81)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (117)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (153)
<223> n equals a,t,g, or c

<220>

3594

<221> misc feature
<222> (174)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (182)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (192)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (193)
<223> n equals a,t,g, or c

<400> 3956
natagttgat acaagaattg tgaactcgtn tcatagatat acatacgaca tattgggtcga 60
gatgctctaa ctgngcnata nggttgcaact attgcagtga tcttgactag agtttanggg 120
gaagtaattg agatttcatac ggaatgcacg tancatatt gttacatgga gaantctagt 180
gntccttgaa cnnttgatc gccccatta aaaaaaggaa t 221

<210> 3957
<211> 116
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (40)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (45)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (68)
<223> n equals a,t,g, or c

<220>

3595

<221> misc feature
<222> (86)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (112)
<223> n equals a,t,g, or c

<400> 3957
ttacncaagt ggggggagaa taaatgttgt caggtcctgn gtcntcggc cattatgaac 60
atgtcatngc gtgcctcatg taccangagt ggaaacacaa tcacctgcct anttca 116

<210> 3958
<211> 126
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (19)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (43)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (66)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (79)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (105)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (116)

3596

<223> n equals a,t,g, or c

<400> 3958

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ngaaagctaa aaatgctant gagcggcatg atacgtgtga canttaacat gaagggttcc 60
acctgncaaa ctgtcatgna attcccgagt ggaccctttg ccatntttgt tgggcncaac 120
ttgact 126
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<210> 3959

<211> 250

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (164)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (210)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (219)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (240)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (250)

<223> n equals a,t,g, or c

<400> 3959

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gcaaaaccat atttaatttc caggttatct tgaacaaggg aaggaaagat gttaaagctt 60
tgttttcatg gcctgtgtga agctgttaca ggatgtttgt tgccagaaaa ggctggatgg 120
ttttaagaag atgggtcttt ctcttccctc ttatgcttca attntathtt gtaccccaca 180
gcttctcttg aacagcctct tctgatgttn ctaggtagna ggaaccttac aaatacattn 240
atatatatgn 250
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<210> 3960

<211> 134

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

3597

<222> (4)
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<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (68)
<223> n equals a,t,g, or c

<220>
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<222> (70)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (93)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (132)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (134)
<223> n equals a,t,g, or c

<400> 3960
gaantntgct caatgatggg cctgtctaag attaccatag accatgcccg catctatggt 60
ggacccangn ttacacagga ggacccgtaa ttnaattgtc atataaggac tttaatggct 120
taaaaaaatt tngn 134

<210> 3961
<211> 56
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (19)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (26)

3598

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (37)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (43)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (52)

<223> n equals a,t,g, or c

<400> 3961

gataaaatgt acaccctna aaaaaaanaaa taaaaanaaa aangtattaa tnaaaa 56

<210> 3962

<211> 150

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (121)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (128)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (132)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (139)

<223> n equals a,t,g, or c

<220>

3599

<221> misc feature
<222> (149)
<223> n equals a,t,g, or c

<400> 3962
gcgccgccc cactcgccgc aggaccggcc cgcccggctc ccgggggtgcg cctctctcgg 60
tcccgcgccc tccgggctcg cagggacgtc tctctcctcc cggctcgcgg tcccgcccgg 120
nccggacncc gnccagagnc ccagcgcgnc 150

<210> 3963
<211> 216
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (24)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (25)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (27)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (48)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (77)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (108)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (179)
<223> n equals a,t,g, or c

<220>
<221> misc feature

3600

<222> (193)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (210)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (211)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (212)
<223> n equals a,t,g, or c

<400> 3963
gtgcgacaat tgcaagttaa ttannncnegg gggaaaagga taggacanat ccctggaccg 60
gtagagacta ggccacncca ttgcatagtc ttgtatgaag ctgcgaanac ttcgttcgct 120
aggcgagAAC aagtggacgc ctggttacac atgtacagca aaatgactgc tggTcaagnG 180
atgaataagt gtntgagtaa cgcttgctgn nnacga 216

<210> 3964
<211> 149
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (39)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (44)
<223> n equals a,t,g, or c

<220>
<221> misc feature

3601

<222> (46)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (116)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (129)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (134)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (144)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (147)
<223> n equals a,t,g, or c

<400> 3964
ntacaaaang ggatatatat tatgaaatgg tcatttttnt gaananaata ttttgcttga 60
aatgcatagg actgaaagag atttgtatgt tgttgattaa tgtaacttca tactgnaact 120
tttaaaaana tttnatctgt aaanccttg 149

<210> 3965
<211> 139
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (15)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (34)

3602

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (35)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (88)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (108)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (121)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (129)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (137)

<223> n equals a,t,g, or c

<400> 3965

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tnaatgttta aatanttgag ggatgtgcct ttcncttat gtcttgctgt atgtagtagt 60
atgtagtagt agcatgatta tatgaagntt caatatgcat taactaangg gataactcaa 120
ngtaatatng aagaaanac                                     139
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<210> 3966

<211> 117

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (15)

<223> n equals a,t,g, or c

3603

<220>
<221> misc feature
<222> (36)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (43)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (60)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (113)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (117)
<223> n equals a,t,g, or c

<400> 3966
nggggtgactc tttgnccatg tgagggtggta tattcncagg atnctgctgg caagagatgn 60
tattcctgcc cagtctatca aatgatctct gattctttac gtaatggggg ctnattn 117

<210> 3967
<211> 104
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (38)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (60)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (66)
<223> n equals a,t,g, or c

<220>

3604

<221> misc feature
 <222> (72)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (85)
 <223> n equals a,t,g, or c

<400> 3967
 gacttgatga atgagagaca agaaagatag ttgcagantc atgtgctcat gaatgcatan 60
 aacacntatc anaagcaaaa atggnttgaa gactttgaaa tact 104

<210> 3968
 <211> 378
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (368)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (372)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (374)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (375)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (376)
 <223> n equals a,t,g, or c

<400> 3968
 gatttttaagc tattttgagat tgctttttggg aagatcacta gattttatgga ggaatttagtc 60
 acaaatgact tgtagaaaaat actgtcatat agttcatttc atcattttct gttgcaggaa 120
 gccactccac cacagaatgc taatatgccca gtggtaccca gtacctcttg tatatagggt 180
 attgcaaaata ttgttctgaa atgcttaact tcagaattac atttttttaa gtaaataatt 240
 gtttttaaatc tattttgttaa agatataaaag tacaatagaa tttctggagt acagattaaa 300
 ctattttgcac taacacacgt gacgtgcatg atttaataaa ataactttac tctccctaaa 360
 aaaaaaanaa anannnaa 378

3605

<210> 3969
<211> 55
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (36)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (45)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (46)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (49)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (51)
<223> n equals a,t,g, or c

<400> 3969
ggttttaaaaa catttattgg ctgggtgtgg tatatnagat ttatnnaant ngatg 55

<210> 3970
<211> 84
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (15)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (18)
<223> n equals a,t,g, or c

<220>
<221> misc feature

3606

<222> (34)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (36)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (67)
<223> n equals a,t,g, or c

<400> 3970
gaaacaatac ataanttnat tgaatctata actngnttta agttgatata atgcattgta 60
ttatatnttg aaacagaata aaag 84

<210> 3971
<211> 92
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (30)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (42)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (43)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (53)
<223> n equals a,t,g, or c

<400> 3971
gatttntcttg agtcttgtag atagaaaggn agctgtcaat tnnaaatcag ttnttcagat 60
tttactgtgg aagcatattt aatgcacaca tt 92

3607

<210> 3972
<211> 238
<212> DNA
<213> Homo sapiens

<400> 3972
ggcttttcaa tctattttaa gtacagctct ttttccctta tttctgattg tttactctgc 60
catttttcctt taattgtctt ctatatattgt tgaatgctta gcttactaat tttcacttta 120
aaaagaaagc atataagggtt acttatatga tttttcctct gagaagtgtt ttaatatcat 180
ggattccatt atgcaatatt ttcattatta taattttctaa ataatccaaa aaaaaaaaa 238

<210> 3973
<211> 152
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (24)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (25)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (30)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (41)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (120)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (132)
<223> n equals a,t,g, or c

3608

<220>
<221> misc feature
<222> (142)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (143)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (148)
<223> n equals a,t,g, or c

<400> 3973
gnaaacccca atgggaaata ccannagatn atacgcaaag ntggaccggt ccggaattcc 60
cgggtcgacc cacgcgtccg ggggcggggg tctatacttc ataccgccc taggccttgn 120
tgatgaaaagt tncacacaga annagcanct ac 152

<210> 3974
<211> 155
<212> DNA
<213> Homo sapiens

<220>
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<220>

3609

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<222> (150)
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actgttttgca gacctctctc tgacatggcc ttggcaggct gttggaaggc atctagtgga 120
ngccgatnnc tncgaccact cataccttten catgc 155

<210> 3975
<211> 100
<212> DNA
<213> Homo sapiens

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<220>
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3610

<222> (62)

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<220>

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<222> (74)

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<400> 3975

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tncacttgcg accntgttta gagggggtgt acttgaattt 100
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<210> 3976

<211> 67

<212> DNA

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<222> (48)

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<222> (55)

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<400> 3976

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gaacgangggg acgtaacgga agcangttgg aacccgttgc cgtcgccnng aaccngggga 60
accagcg 67
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<210> 3977

<211> 386

<212> DNA

<213> Homo sapiens

3611

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 gtgtctaaca aacttaaagc tactgtagta cctaaaaagt cagtgttgta catagcataa 120
 aaactctgca gagaagtatt cccaataagg aaatagcatt gaaatgttaa atacaatttc 180
 tgaaagttat gttttttttc tatcatctgg tataccattg ctttattttt ataaattatt 240
 ttctcattgc cattggaata gatatctcag attgtgtaga tatgctattt aaataattta 300
 tcaggaaata ctgcctgtag aagtttagtat ttctattttt atataatggt tgnacactga 360
 atttaanaat tgntgggttt ntcntt 386

<210> 3978
 <211> 273
 <212> DNA
 <213> Homo sapiens

<220>
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<220>
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3612

<222> (257)
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<220>
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<220>
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<220>
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<222> (273)
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tgctgagcct agttcctggt cagtaataac tgaacagtgc attttggtt tggatgtgtc 120
tgtggacaag cttgctgagt ttctctacca tattctgagc acacggtctc ttttgttcta 180
acttcagctt cactgacact gggttgagca ctactgtatg tggaggggtt ggtgattggg 240
aatggatggg gganagnan gaggacacac nan 273

<210> 3979
<211> 156
<212> DNA
<213> Homo sapiens

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<220>
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<222> (107)
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<220>
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<220>

3613

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aaccaggccg gtgggggctc tgtgagcccc tntgcacagg aagcctnaga gactctgcat 120
ggtgttcccc gngcatcctg gccaanagtgg gagaan 156

<210> 3980
<211> 59
<212> DNA
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<220>
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<222> (49)
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<400> 3980
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<210> 3981
<211> 82
<212> DNA
<213> Homo sapiens

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3614

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<400> 3981
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ttgnattggg gcttcccttn na 82

<210> 3982
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<212> DNA
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tatataaaat gcagtttgca tatataactt gaatatctgg tactagtgtt ttcacgcctg 180
caatcttgga gtctagggtg ccttgctctc ctatttttta ataagtgaaa tttgggagat 240
tgtaaaatct gtaaagtttg ttttgtgaaa ataaaatgtt cacagtagaa aaaaan 296

<210> 3983
<211> 133
<212> DNA
<213> Homo sapiens

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3615

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<220>
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<223> n equals a,t,g, or c

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gcgtcgcgcg cctcttnggg gcttttaggen ggcttgcccg cgctngggnt tccncgtga 120
cagtgggtgtg tgg 133

<210> 3984
<211> 452
<212> DNA
<213> Homo sapiens

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3616

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<222> (8)
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<220>

3617

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 <222> (429)
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 tcagtgcctg gtggagggat aggagaaggt cctgagtgtg gactgggtgg agggatagga 180
 gaaggtcctg agtgaggact gcatggaggg ataggagaag gtcctgagtg agtgcttggt 240
 ggagggatag gagaaggtcc tgagtcagtg ctgggtggag ggataggaga aagtnctgag 300
 tnaagtgcctg ggtggagggg tagganaagg tcctgantgt ggactgggtg aaagggatag 360
 gagaaggtnc tgagtgagga ctgggtgga gggataggag aaagtnctga gtgaggactt 420
 gngtggagng ataggaaaag gntcttgaat ga 452

<210> 3985
 <211> 316
 <212> DNA
 <213> Homo sapiens

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<220>
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 <222> (74)
 <223> n equals a,t,g, or c

<220>
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 <222> (79)
 <223> n equals a,t,g, or c

<220>
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3618

<222> (80)
<223> n equals a,t,g, or c

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<222> (109)
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<222> (156)
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<222> (160)
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<220>
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<222> (165)
<223> n equals a,t,g, or c

<220>
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<222> (176)
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<222> (187)
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<220>
<221> misc feature
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3619

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<220>

<221> misc feature

<222> (212)

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<220>

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<222> (252)

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<220>

<221> misc feature

<222> (278)

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<220>

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<222> (307)

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<220>

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<222> (308)

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<220>

<221> misc feature

<222> (312)

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<400> 3985

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acactgattt ttangctggn ccctcttggg cticcatgcaa agacaantnt gtgtaaatgn 120
acagaagact ctgatttgga aatatgaaaa tcagtncatn cttgntataa aaaatntttt 180
nacaatngta attatattga agntcatatt gngtaaaata actcatttaa taaaatagaa 240
ctttgattca cngacaaaaa aaaaaaaaaa gggctggnca gctctaaagg atccaagctt 300
acgtacnngt gnatgc                                     316

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<210> 3986

<211> 57

<212> DNA

<213> Homo sapiens

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<220>

3620

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<210> 3987
<211> 100
<212> DNA
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3621

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antaggattg gatgaatggg aaattntgct tgcnagcttt 100

<210> 3988

<211> 108

<212> DNA

<213> Homo sapiens

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<220>

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<222> (64)

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<220>

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<222> (102)

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<400> 3988

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gaangagacg gcaccctgac caagtcagtt acagaaccgc tnagaatg 108

<210> 3989

<211> 104

<212> DNA

<213> Homo sapiens

<220>

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3622

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<220>
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cagancatct gttaccccan aaacaggggc nctatatattg agcc 104

<210> 3990
<211> 85
<212> DNA
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3623

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<222> (73)
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catgctcagn gtngtgctta ataaa 85

<210> 3991
<211> 66
<212> DNA
<213> Homo sapiens

<220>
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<222> (60)
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<220>
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<222> (63)
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cancctt 66

<210> 3992
<211> 128
<212> DNA
<213> Homo sapiens

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<220>
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3624

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ngacgcgaac ggcgcgtcca ntntcaccc cgcgacgagg gcntgtgcgg gcagcaccca 120
gggaggtg 128

<210> 3993
<211> 144
<212> DNA
<213> Homo sapiens

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3625

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<222> (129)

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<220>

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<222> (138)

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<222> (144)

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<400> 3993

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ctcttgggct tacggttgcc aggaagcctt tccccccag aagacttgcc tgttagggac 120
ctcgccntnt ggggancntc cctn                                     144
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<210> 3994

<211> 384

<212> DNA

<213> Homo sapiens

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<220>

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<222> (82)

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<222> (114)

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<222> (151)

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3626

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<220>
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<220>
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3627

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<220>
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<223> n equals a,t,g, or c

<400> 3994
gctcgtgcaa tggngtgccg gctggaaaga ttgctgcagc agggacatcg ctgcctcctg 60
gcttaatact tgaacatttt gnatatattt ctgtgtatat aattgatgtg cagnaccaat 120
gacaaaaata tgggtgcata atagaaccag nnnngtngat cttttagnta tgggctcaaa 180
gaatctattc atctctaaca tgatattgga aaataatgga tgaaaaatagg naaaatgatn 240
gcaatgctga ctgaggggtc taaaagggtnc tggaaagcag tangttcatt tntctaaaaa 300
ctataacatt ctggaggagt atnttcttcc ttacgtnaat acttttcctg cantatttga 360
aatngtgggc tggggagaaa cagt 384

<210> 3995
<211> 141
<212> DNA
<213> Homo sapiens

<220>
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<223> n equals a,t,g, or c

<220>
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<220>
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<222> (22)
<223> n equals a,t,g, or c

<220>
<221> misc feature

3628

<222> (26)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (75)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (133)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (134)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (140)
<223> n equals a,t,g, or c

<220>
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<222> (141)
<223> n equals a,t,g, or c

<400> 3995
tgacnagngg acaagatcgg gntcanagaa aacggggcacg acagcaccag aacatggggg 60
aaatacgcca gattngagga ggccaagctg aatgaaaacg gagacgcagg atgaagaaca 120
cactgcagac canngagagn n 141

<210> 3996
<211> 516
<212> DNA
<213> Homo sapiens

<220>
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<220>
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<222> (391)
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<220>
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<222> (417)

3629

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (459)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (465)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (478)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (491)

<223> n equals a,t,g, or c

<400> 3996

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tacgattttac ataattatta ctctgtaaat gctttttatg atctctgagc catgtagtat 120
attatggcta tttttctttc ttatctatgt gtatttttat tgttattacc taaaaaaaaa 180
ttttctatgt cttatcacta attcttccct aaaatttccc acaattgtgt aaacttacct 240
cagtatattc atagatatga gacattctat caattttacc ctcttaaaga tgcagagata 300
atgcattatg nttcatccca ccatctttaa tgagaagctt ccatcttaga ttaatattag 360
agaatgttaa aatactctgc aatcaggtaa nggacgcttg aaacttcatt ataatgnaaa 420
aggttttctt ttaacacccat aaatattttg aaccctttnt ggggncttgt attcatangg 480
agtttagaat ngacccttta ttacctatgt tttaaa 516

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<210> 3997

<211> 68

<212> DNA

<213> Homo sapiens

<220>

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<222> (4)

<223> n equals a,t,g, or c

<400> 3997

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ggantaagaa aaagaaaaag aagagaaaga gtcagaagga acgtgataaa gaagtaagcg 60
atgatgag 68

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<210> 3998

<211> 405

<212> DNA

<213> Homo sapiens

3630

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<220>
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<222> (24)
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<220>
<221> misc feature
<222> (244)
<223> n equals a,t,g, or c

<220>
<221> misc feature
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3631

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<221> misc feature
<222> (383)
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<220>
<221> misc feature
<222> (384)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (388)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (404)
<223> n equals a,t,g, or c

<400> 3998
ncgcctcacc ttggaancct tctnctatag gtnaagctgg tacgcctgca ggtaccgggc 60
cggaattccc gggtcgaccc acncgtccgc tctgggtctcc cagcacctgg cccaggtaac 120
agncttctga aagcagagcc aagganctgc ntctctcttc tcccagttct acctccccag 180
aagccttccct ccccagggtgg ggctgatgga gcaagggtcc agactaggag ccttccaccc 240
cagntgtgtc tggcgcccct agatctctgc aaggggaggtg ttacagctgg atctgagccg 300
cttgcccttgt gatggtaaga caccaacctt tacattcttc cctgangttg tggttgacag 360
agcctgcttg gcccactcg tannccancc agctcctata tcana 405

<210> 3999
<211> 138
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c

<220>
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<222> (7)
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<220>
<221> misc feature

3632

<222> (15)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (47)
<223> n equals a,t,g, or c

<220>
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<222> (119)
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<220>
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<222> (125)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (126)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (132)
<223> n equals a,t,g, or c

<400> 3999
ncnctanagg aaagnttcgg actataggtc aagctggtac gcctgcnggt accggtccgg 60
aattccccggg tcgacccatt cgtccggatt ttcccttttc ggatactagg ggatgaatng 120
ggaanntaaa gngaaaaa 138

<210> 4000
<211> 83
<212> DNA
<213> Homo sapiens

<220>
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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (33)
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<220>
<221> misc feature
<222> (36)

3633

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (60)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (77)

<223> n equals a,t,g, or c

<400> 4000

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tggaatgaat gacattngca ggt 83

<210> 4001

<211> 154

<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (43)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (49)

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<222> (95)

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<222> (122)

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3634

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<221> misc feature
<222> (135)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (149)
<223> n equals a,t,g, or c

<400> 4001
gncatagtta caatgcaagt aaactggata ctagttcttt tgncagatnt gttaaagtca 60
tgcagaataa tatcntgaag agtattgatt gaagnttggtg atattcatca ataaaaatga 120
gntgataata tgcanaaaaa aaaagccant aaaa 154

<210> 4002
<211> 648
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (267)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (547)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (589)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (602)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (603)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (609)
<223> n equals a,t,g, or c

<220>

3635

<221> misc feature
<222> (638)
<223> n equals a,t,g, or c

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aaaccagcct gacatattaa agagggcttc tgcagagggtg agcttagtct gaattatgga 120
agaactttcc aggcagatac aaatgcaaag gccctgcagt gtgaggagct aaccacacac 180
aaggatggag agcagttcat agtgactgga gcccaggggtg cagctaagga gctggagagg 240
gggaaaggcc ataccaagga gagcctnadc caaagagttt ggaccattaa aggattctag 300
gaagttcaag ctggagacag caaggaagat gtattggaag tgggtgagag aggggatgga 360
agatgggttaa gacactcttg gagtaatcaa atgaaaaata atgaaggtag aaactaaagc 420
agggataaaa aggatggcac tgactctaga ttgttgagtg aaatagatgg catttgggga 480
caatagatta cagtctaggg agaaggattt gagactagga taatttccca gtctctttaa 540
tggtgangtg attggtgttg cccctgagta ccgaaaggaa ggggaagttna ggaatgggat 600
cnnatttana cagttgggat attttgaatt tggatgtnta aggaaccc 648

<210> 4003
<211> 452
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (207)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (216)
<223> n equals a,t,g, or c

<220>
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<222> (232)
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<220>
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<220>
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<220>
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<222> (252)
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3636

<220>
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 <222> (293)
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<220>
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 <222> (311)
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<220>
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 <222> (387)
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<220>
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 <222> (403)
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<220>
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 <222> (437)
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<220>
 <221> misc feature
 <222> (442)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (451)
 <223> n equals a,t,g, or c

<400> 4003
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 atattatagg ttaaaatttt cttaatcggt cttttctatt cgcttgccaa ggggtgaatga 120
 aagaacatgg ctgcttctcc cagactgact gaccttggea tccgcataaa gcatcattgc 180
 tttcaaaaat gaagggtgct taattgntcc cttttntcta tattctgtag gnctcatnac 240
 ancaaactgc antctacagc ttcttaaagg tcagcgtgtt aacctaacat atnacacagc 300
 aagaatctgg ntgtctgaac tatttttaaa taaggagcca gatgttttta gtcaggctat 360
 tctgaccaga cttgacctaa acttccnttt tattggcata acnggccaat ataattcttg 420
 ggccaatttg gccaacngga cnagaaaaaa nc 452

<210> 4004
 <211> 180
 <212> DNA
 <213> Homo sapiens

3637

<220>
<221> misc feature
<222> (165)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (167)
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<220>
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<222> (170)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (178)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (179)
<223> n equals a,t,g, or c

<400> 4004
ggttgaaagt catggaacga ataaagtgtc agatttaggg ttaacatttg ggtctgtttg 60
actctaaagc ccatgttctt tctgctactt tctgttactt cttccctagt ctttaacagt 120
aatcgttcaa ctgtgattaa actttgcctc tctggaaaaa aaaaananaan aaaaaaanna 180

<210> 4005
<211> 527
<212> DNA
<213> Homo sapiens

<220>
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<222> (451)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (465)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (474)
<223> n equals a,t,g, or c

<220>

3638

<221> misc feature
<222> (480)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (486)
<223> n equals a,t,g, or c

<400> 4005
gaatagattg aaagcctctt agtgcaggaa gcaggcatca gtatcaaact gatgtcatcc 60
aatgtaatta ttttaagctc caggtttgtc taagtttggg tgaagaatgt tcaggaacat 120
gtttgcaaca tacagttatc cagcttacct tttgacagat tcacccttct catcaaaata 180
cacagtaagc ccaacctaaa aattataagt ttacaaataa aggaatagaa aaacccaaaa 240
agctaattgta cacataaaaa ttatcttttg ctgcaataaa taggtatgga aatatttgta 300
gaattggttt aactgatttt gtaaaacaaa tgtcatgcta ttttgccata gtgagacatg 360
cagtagttct taaaatcaca ttaatagaag gcaagaacat tggaatcaga cttaacagat 420
acagattcag tgataatgac cattgactaa natacttagg aactnctgag aacngatgtn 480
tactgnctcc gtccaactga tgacttatgg gtatagataa tggattt 527

<210> 4006
<211> 159
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (11)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (50)
<223> n equals a,t,g, or c

<220>
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<222> (63)
<223> n equals a,t,g, or c

<220>
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<222> (97)
<223> n equals a,t,g, or c

<220>

3639

<221> misc feature
<222> (113)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (133)
<223> n equals a,t,g, or c

<220>
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<222> (150)
<223> n equals a,t,g, or c

<400> 4006
gggaangccc ncaggtaccg gtccggaatt cccgggtcga cccacgcgtn cggttgtgtc 60
ctntagttga gtttctggcg cccctgcctg tgccccnatg tgtgcctggc cgnagggcgg 120
ggctgggggc tgnccagcca ccatgcttgn ctgaagctt 159

<210> 4007
<211> 123
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (4)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c

<220>
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<222> (12)
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<220>
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<222> (62)
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<220>
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<222> (89)
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<220>
<221> misc feature

3640

<222> (102)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (106)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (110)
<223> n equals a,t,g, or c

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gtgnagggnt tngggaacgc ccccaggtac cggtcaggaa ttcccggggtc gacccacgcg 60
tncgtatttt taaatttggg caacccttna gtgcaaggaa tnaaantagn actgatttga 120
cag 123

<210> 4008
<211> 142
<212> DNA
<213> Homo sapiens

<220>
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<222> (8)
<223> n equals a,t,g, or c

<220>
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<222> (9)
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<220>
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<222> (18)
<223> n equals a,t,g, or c

<220>
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<222> (27)
<223> n equals a,t,g, or c

<220>
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<222> (31)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (107)

3641

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (125)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (128)

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<220>

<221> misc feature

<222> (135)

<223> n equals a,t,g, or c

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<221> misc feature

<222> (136)

<223> n equals a,t,g, or c

<400> 4008

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gcttctanng gaacgctntg gataggncctt ntggggaacg tttcccggta cccggcccgga 60
attcccgggt cgacccacgc gtccggggtc aagacttgga accgcanaaa acgaaatccc 120
atagnagnac aaagnntggc tg                                           142
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<210> 4009

<211> 132

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (19)

<223> n equals a,t,g, or c

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<221> misc feature

<222> (70)

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<220>

<221> misc feature

<222> (74)

<223> n equals a,t,g, or c

3642

<220>
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<222> (92)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (110)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (122)
<223> n equals a,t,g, or c

<400> 4009
actantggaa aggcctatng ggaaagtttc cccggaaccg ccccggaatt cccgggtcga 60
cccacgcgtn cggnttctcc tgtttctcct tntgctcctg accccacgtn cttgctcttg 120
gngcccctat tg 132

<210> 4010
<211> 528
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (10)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (19)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (48)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (71)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (73)
<223> n equals a,t,g, or c

3643

<220>
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<222> (103)
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<220>
<221> misc feature
<222> (389)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (396)
<223> n equals a,t,g, or c

<220>
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<222> (422)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (501)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (503)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (505)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (517)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (526)
<223> n equals a,t,g, or c

<400> 4010
actacttttgn ttaggtggna ccgccccgca ggtaccggtc cggaattncc gggtcgaccc 60
acgcgtccgc ntntttattg gagcaatcca aaatagcagc tgnccaacaa tacaggaata 120
cagaagacag tttgaatcac actcattttt tctgaaattt tcaacttcat agaaaggcaa 180
ttgagtttag aatagagagg tatttgtgtc atgatgaata accatgatct catccataaa 240
aagaaggcca tatggtcttt cagacaagaa agaattgtat acctgaaatt aagtacaaaag 300

3644

cagtatacaa ataaatagtt gaggggaagaa atcagtgaga gttaaaatag taattataaa 360
gtgggtgagat tgttttcagt ctcatgtgna tactgnntac cattaacacg ggccataaat 420
gnatataaat gttgagtttt agaaagatgt ataatatgta ttattttaca tccttttaac 480
atatgtatat gtttcaagtg ntnanccaat ttatatnggg tgcaanca 528

<210> 4011

<211> 268

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (29)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (50)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (53)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (54)

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<220>

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<222> (150)

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<220>

3645

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<220>
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gcccgaattc aaatcctgta aggatggaag aaacggcctg gagaatattc gggatgagac 120
accacttgta ttttgatcna atcagacctn ttgacctnn anttacaggg caagattctt 180
aatgaaaaaa gaggttcaga gatgatgana nagacacgat atttggactt tctgtgggcn 240
atnacttggtg aaacgtccat tcnaactg 268

<210> 4012
<211> 340
<212> DNA
<213> Homo sapiens

<220>
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<222> (328)
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3646

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<220>
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<222> (334)
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ttccctcctt taagtgttga ggattttctg tttagtgtt ccttgaccca gtttcaaaca 120
gagccatctt ttacagatta ttttggagtt ttagttgttt taaacctaac tcaacaaccc 180
tttatgtgat tcctgagagc agtatgaggc ctgcaagaaa gtgatcatat aattgtatct 240
tcactttctt tttatttttg tattacattg ggatgcattg tcatgcatat tttttgtaga 300
ataaattctc ctttgctata aaaaaaanaa natnanatna 340

<210> 4013
<211> 385
<212> DNA
<213> Homo sapiens

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<220>
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<220>
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<220>
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<222> (335)

3647

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<220>

<221> misc feature

<222> (375)

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<220>

<221> misc feature

<222> (379)

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<400> 4013

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tagtggacaa cagcaatcaa attatggacc catgaaaggg ggcagttttg gtggaagaag 120
ctcgggcagt ccctatggtg gtggttatgg atctggtggt ggaagtgggt gatatggtag 180
cagaagggtc taaaaacagc agaaaagggc tacagttctt agcaggagag agagcgagga 240
gttgtcagga aagctgcagg ttactttgag acagtcgtnc caaatgcatt anaggaactg 300
taaaaatctg ccacagangg aacgatgatc catantcaga aaagtactgc agcttaaaca 360
ggaaaccctt cttgntcang actgt 385
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<210> 4014

<211> 353

<212> DNA

<213> Homo sapiens

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<220>

<221> misc feature

<222> (62)

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<220>

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<222> (73)

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<220>

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<222> (113)

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3648

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<220>
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<220>
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<222> (226)
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<220>
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<220>
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<222> (352)
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<400> 4014

3649

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gngaacccgc ctncacaccc ccccccttt tcaaccacaa cattggcatc atnctaaggc 120
tggtaccct cgtggtcacg ggatgattgc cagtagcagt tggagccttg tgcatnttca 180
tttaccatgca ncggaagagt caggctggat tctaggggcc ctgtntaat atganaangc 240
ttttcccagg aatttactgg ttcataatcct taggtctcat tgctctatag taacttagac 300
ctgtcatcct ganccantcn ctggcaaagg gnctagaata acctttaagg cng 353

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<210> 4015

<211> 67

<212> DNA

<213> Homo sapiens

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<220>

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<222> (44)

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<220>

<221> misc feature

<222> (59)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (62)

<223> n equals a,t,g, or c

<220>

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<222> (67)

<223> n equals a,t,g, or c

<400> 4015

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gctcaaggtc tcctccttcc ctcccccccc cccccgtga gannctttta aaaataaana 60
antgtan 67

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<210> 4016

<211> 92

<212> DNA

<213> Homo sapiens

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3650

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<222> (40)
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<220>
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<222> (55)
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<220>
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<220>
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ttaactcagt caaccaaagt cttnctgngt tt 92

<210> 4017
<211> 103
<212> DNA
<213> Homo sapiens

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<222> (33)
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<222> (46)
<223> n equals a,t,g, or c

<220>
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<223> n equals a,t,g, or c

<220>
<221> misc feature

3651

<222> (86)

<223> n equals a,t,g, or c

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gggaatatan cattgaactg tggtgnttac cttcactatt cgg 103

<210> 4018

<211> 227

<212> DNA

<213> Homo sapiens

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<220>

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<222> (42)

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<222> (180)

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<222> (186)

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3652

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ccttcctcca ttgttgccct ggaatgtacg ggacccaggg gcagcagcaa gtccangtgc 120
cacaggcatc cctgggacat atgaagctgg gagcaaggaa agggctcttag tcnctgnctn 180
ccgaanttgc ttgaaagcac ttgganaatt gtgcacgtgt catttat 227

<210> 4019
<211> 101
<212> DNA
<213> Homo sapiens

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<220>
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<222> (27)
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<220>
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<222> (34)
<223> n equals a,t,g, or c

<220>
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<222> (45)
<223> n equals a,t,g, or c

<220>
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<222> (94)
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<220>
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<222> (101)
<223> n equals a,t,g, or c

<400> 4019
ncctaactct atgtgcacct ggagtangat aatnaaaatc ctgantgctc tctttgcctt 60
ggtcctgttc tcaatggtga cgactgccac cacnacatgc n 101

3653

<210> 4020
<211> 107
<212> DNA
<213> Homo sapiens

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<220>
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<222> (52)
<223> n equals a,t,g, or c

<220>
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<222> (69)
<223> n equals a,t,g, or c

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<220>
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<222> (95)
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<220>
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<222> (103)
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ttctgctgnc nttcgtggca gagggactcg gaatnatgca ctntaag 107

<210> 4021
<211> 129
<212> DNA
<213> Homo sapiens

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<220>
<221> misc feature

3654

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<220>
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<220>
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<222> (55)
<223> n equals a,t,g, or c

<220>
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<222> (106)
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<220>
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<220>
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<222> (123)
<223> n equals a,t,g, or c

<400> 4021
gtatnacatt anatctacaa nacttccatt nattaggaag cacattaacc atttntatag 60
catgatatct taaagatgga ggcaaaaagga tataaattct ataatngact tgagnacttt 120
aanccttgt 129

<210> 4022
<211> 57
<212> DNA
<213> Homo sapiens

<220>
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<222> (33)
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<220>
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3655

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<220>

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<222> (47)

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<220>

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<220>

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<222> (53)

<223> n equals a,t,g, or c

<400> 4022

gctcaaggtc tctctcttcc ctcccccccc ccncacgtat tcanagnnggg ngnccttg 57

<210> 4023

<211> 180

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (4)

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<220>

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<222> (8)

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<220>

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<220>

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<222> (35)

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<400> 4023

3656

tatntgggnac nccngcccgt accggtccgg aattnccggg tcgacccacg cgtccgattt 60
 tgtcctacct gcattctgta aaaattgaaa aaagaacaat tgaatccatc attgggcaga 120
 tgaataaaaag gagataagga tgaaattaaa ataaggttct aatcctaaaa aaaaaaaaaa 180

<210> 4024

<211> 347

<212> DNA

<213> Homo sapiens

<400> 4024

gcaaataatta agaaggttta ccactcatag atccttacta aaagagatat tataggatgt 60
 tctttaggaa gaaaaaataa atactggagg aaagagtagg ttaaaaaata acaagaaaac 120
 ataaagtata attcattatt tttcgtaaaa aatatTTTTTc ttacaaatgg taaaactaaa 180
 tctctagcca tcaataataa gatgggtgct attttacggg tagtaaaagc atgataaagt 240
 ctttagtaag ttagggaaaa gaccaaaatt aggaaatgat tctgtacagt attaaaaaaaa 300
 gacataaata tatatgtcaa agtggttaagg ataactagta aaaaaaa 347

<210> 4025

<211> 375

<212> DNA

<213> Homo sapiens

<220>

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<222> (43)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (370)

<223> n equals a,t,g, or c

<400> 4025

ggccaaggta tttcttgtgc ttttgggatc ttatgctgtt tgnaaaatgt tactgtccaa 60
 tgttggatta ttgttttggg ttcaggcatt tgctgaatag gtgatgatac atgggtattt 120
 ttctgcaagt atttaaacca ggggcatatg caaaggcagt tgtaatttcc tcttggaaaa 180
 agcgccaaat gtttgaaggc taaaatcaaa tgctagggtt gatatttagg cttataacaa 240
 aataggcttg ttttcaaagc agttttttcc tagagtttta actgttaact cactagtttg 300
 ctgctgtttt taactatgtt aaataacata tggatatttg caaatagatt tattttttcaa 360
 aatgaaaaan aaaaa 375

<210> 4026

<211> 121

<212> DNA

<213> Homo sapiens

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<222> (7)

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3657

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<222> (114)
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<400> 4026
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cgagggggggg gatgggtgta agacaattgg cccgggggaga aagaggggnct gannaaacgg 120
a 121

<210> 4027
<211> 229
<212> DNA
<213> Homo sapiens

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<220>

3658

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<220>
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<222> (185)
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<220>
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<222> (186)
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<220>
<221> misc feature
<222> (202)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (225)
<223> n equals a,t,g, or c

<400> 4027
nngaaacact gtctatanta acggactgga ccgtatgacg gngcctaacc cgggccacgg 60
tgtagagacn atgctactcg atgacgctgt gagaccggac taaatgggag tggagaacgg 120
gttaggggtgg acgcttgaag atgagcatta tatcacaaca cngtaatgaa acctggtgcc 180
catgmgacc cgaagacttg tntcttcagc atgcatgggc cttcnaata 229

<210> 4028

3659

<211> 72
<212> DNA
<213> Homo sapiens

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<220>
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<222> (35)
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<220>
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<223> n equals a,t,g, or c

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<222> (69)
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<220>
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<222> (72)
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<400> 4028
gttggaatgc gntcggagca cttgctctga ggaanaccat agtgactctg tcgaagaaga 60
atccggnccn an 72

<210> 4029
<211> 595
<212> DNA
<213> Homo sapiens

<220>
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<222> (13)
<223> n equals a,t,g, or c

<220>
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<222> (201)
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<220>
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3660

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<222> (323)

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<222> (577)

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<220>

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<220>

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<222> (583)

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<220>

<221> misc feature

<222> (584)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (590)

<223> n equals a,t,g, or c

<400> 4029

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gctgaaatgc atngtgcttt catcaatgaa ccttttcaaa cttttctatg attgcagaga 60
agctttttat ataccagca taacttgga acaggtatct gacctattct tatttagtta 120
acacaagtgt gattaatttg atttctttaa ttccttattg aatcttatgt gatatgattt 180
tctggattta cagaacatta ncacatgtac cttgtgcctc ccattcaagt gaagttataa 240
tttactactga ggggtttcaa aattcgacta gaagtggaga tatatnattt atttatgcac 300
tgtactggat tttatattgc tgnntaaaac ttttaagctg gcctcactta ttaaagcaca 360
aaatgtttta cctactcctt atttacgacg caattaaaat acatcaatag attttttaggc 420
tgaattaatt tgaaagcaca atttgctgtt ctcaccattc tttcaaggct tttcattgtc 480
aaaggtaata aaaaaggtag gacaattaaa gtgaaaaaaaa aaaaaaaagg gcgggccgctc 540
tagaggatcc aagcttacgt acgccgtgca tgcgacntna tannctcttn tatag 595

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<210> 4030

<211> 119

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

3661

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<220>
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<222> (42)
<223> n equals a,t,g, or c

<220>
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<222> (46)
<223> n equals a,t,g, or c

<220>
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<222> (61)
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<220>
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<222> (97)
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<220>
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<222> (108)
<223> n equals a,t,g, or c

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ctccccangg tccttatgca catgtggact gcactgaaaa gngccnttgg attgaatcat 60
natgatctat gagaggcatc catcctggat ttggaanagc tcaaatcnga agttaccag 119

<210> 4031
<211> 522
<212> DNA
<213> Homo sapiens

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<220>
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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (481)
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3662

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<222> (506)
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<220>
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<222> (508)
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<220>
<221> misc feature
<222> (514)
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<220>
<221> misc feature
<222> (518)
<223> n equals a,t,g, or c

<400> 4031
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gtcgactcat ncgtccggag caaactgctc agcgcgtctc agctcagtgc cgaggaggag 120
gaagaaaaaac aggccgagtg aaggtgctgg aaagggaggag aggacgcgag gggaaaggcc 180
tgtggggagc cacgggctgc agagagaccc gggaaggaaag gctctcgggt gggggagcca 240
ggagacctgc tctccggcgc agacaggcgc ggcccagcgc tctcctggac gccccgccc 300
gcacagctcc cggcgggtgc tctgaggcct cactactcga gcccacccag catcccgcgc 360
gcccttcctt cccgaggaac tcgcctcagc ctgatcaggc ttcctggtga gaactganga 420
gcggactcac ttgatgtttc ctggaagcag agcaaaatgc tcttgtcctt gtcgcgtctt 480
nattttgccc atgtccccc gtgcancngg ttcnattngg tt 522

<210> 4032
<211> 352
<212> DNA
<213> Homo sapiens

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<222> (54)
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<222> (93)
<223> n equals a,t,g, or c

3663

<220>
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<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

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cacccttgcc ctctgcagac tgggggttctg tanaccnca aagtaagtcc gccacaccgg 120
aaggaagtga gttacacagg ggcccacatg ggaaccgctt tttgtcctgt cttggtggga 180
aaatggccac gaccccagcc caggctctgc caccgccaaa ctccacgggc atagcctgtg 240
aggccgcagc gtgaactgtg actagggctg aggatggtgc catggtaaaa gtganggcct 300
ggcaccnngt caantgcatg aattcttngn agtgggggttg ggaaaaacac ct 352

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<212> DNA
<213> Homo sapiens

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<220>
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3664

<222> (66)
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<220>
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<222> (80)
<223> n equals a,t,g, or c

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gtgacngncg gtgctgcngn ctaacacaca cctaatagaca gacaccaaca gccatacgct 120
tggggagccc gg 132

<210> 4034
<211> 275
<212> DNA
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<220>
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3665

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<222> (243)

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<222> (269)

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gcggtccgaaa gatagcaang ataatagcgg tggagaccca ccngcacaaa tgcacccaag 120
agacaagcca ttacataca gatattnaca gtcacacata gaaacaccca catggacaca 180
aggaatgttg ctgcanagac tgaatgacat gcaacangtg aaggnttata cgggtatacac 240
aangccaggt aagcgctcat aaatcacana caata 275
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<210> 4035

<211> 243

<212> DNA

<213> Homo sapiens

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3666

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cggaattccc gggtcgaccc acgcgttcgc ttattgattc cagaccatt tcagcagact 120

3667

gtgacacttc agcgacctgc aaattctaca cattagagtn catatTTTTat acaaactncg 180
tacacctaag atgtggactn aacatttcta cnaacaacat ccaacttcaa caaaagatgc 240
ang 243

<210> 4036
<211> 251
<212> DNA
<213> Homo sapiens

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<220>
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<222> (183)
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<220>
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<222> (244)
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<222> (245)
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3668

tagaagaaat ggntatggct tatccaaaaa gaatgtcagc atgacctggt gtagacttaa 120
aaaactacat gtttgtgaat attttataat gtggaatgat cattgaaata ttnaggattn 180
tangtaattg tatttcctga ataaacgtat gttcatgaat tttctaactt acatcttgta 240
gtgnnctctg c 251

<210> 4037

<211> 175

<212> DNA

<213> Homo sapiens

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<220>

3669

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<222> (146)
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cgggtcgacc caccggttcc gcgaccgacc ttcagcaggg ntgaggntac catgttctct 120
cgcgcgggta gncactgggc atgncnagtc tggacctttg cagagcgcaa atgga 175

<210> 4038
<211> 293
<212> DNA
<213> Homo sapiens

<220>
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<222> (7)
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<220>
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3670

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<220>
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<222> (184)
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<220>
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<222> (234)
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<222> (248)
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gcattatattt ctccatttta taatttttac agggggaaca gcgaagccag atgatttatt 120
agttattgcc ggtganaata caganatcct ttgaaacatt tgtctctnct agaattctca 180
tcanaccata tgcttctaac acagcactta acagtcattg ggagtatgtg ggantaacan 240
atactcgnntt ccctgccana accacacata caccacacaca cttgaaanaa aaa 293

<210> 4039
<211> 87
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (6)
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<220>

3671

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<222> (81)
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<221> misc feature
<222> (82)
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<220>
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<222> (86)
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<400> 4039
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gagggaactc gtgccttata nnattna 87

<210> 4040
<211> 59
<212> DNA
<213> Homo sapiens

<220>
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<220>
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<222> (57)
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<400> 4040
gnaaaaatn tn tgtgantaaa ttctctcttt gatcaataaa aaaaaaaaaag gggcggnccg 59

3672

<210> 4041
<211> 104
<212> DNA
<213> Homo sapiens

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<222> (29)
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<221> misc feature
<222> (53)
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<220>
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<222> (65)
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<400> 4041
aaaaaaatac gngggnaaaa agccccaant ttttgggggaa aaaaaccccc gnccttggg 60
aaacnttaat taaggggggcg ggaaaaaggc cctgggggggt gaac 104

<210> 4042
<211> 413
<212> DNA
<213> Homo sapiens

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<222> (304)
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<220>
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3673

<222> (305)
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<220>
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<222> (381)
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tggaatgtgc ctgggatttg ggtctaagtg tatgcgtaat tcttacctca ctaaagaatt 120
tgccttgttt ttttcctttt ggtgagtgac taaaacgtct gggcttccct gtgtgcgtgc 180
tacagtaagc aagcagaggc tgtgcaaagg tgtgagcagg atcacgtgga atctggagga 240
tacatcttgg cttgcaaact gcctctgtct cctgngtggg actgttctgt ccttgcaactg 300
ctgnnctgtg gttacctctt ggggtgtaag gttttgctta canggaacat actttgggcg 360
tanaatggat ccattgccaa ntctctgtgc tnagaaagaa aggtgcttcn gtt 413

<210> 4043
<211> 112
<212> DNA
<213> Homo sapiens

<220>
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<222> (20)
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<220>
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<222> (51)
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3674

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<222> (58)
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<220>
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<222> (77)
<223> n equals a,t,g, or c

<220>
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<222> (92)
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<400> 4043
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cctggaaatt gaatggnacg gaccctgatg antttcatta tgattgggca cg 112

<210> 4044
<211> 55
<212> DNA
<213> Homo sapiens

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<220>
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<220>
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<222> (51)
<223> n equals a,t,g, or c

<400> 4044
ggttgcacat gattgtntaa gcatgctttc tttagatttt aaatgggggn ntagg 55

<210> 4045
<211> 374
<212> DNA
<213> Homo sapiens

<220>
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3675

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<222> (18)

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<222> (155)

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<222> (219)

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<220>

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3676

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<220>
<221> misc feature
<222> (372)
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tttgtaatgc catcttcttt atatttctgg gacattaaaa ttcaaattctc tgttgaaaat 120
gaaaaatgta aaacttagtt gcaaacagta taganaataa gtgatgatga aatatttggt 180
ttcatacaaa catgctttcc cattctaaat agatgctann tttctttttt ccttggctgt 240
aaataaaaagt gcccctaatg anaaacnaan naaaagggcg gncgctctan aggatccaag 300
cttacgtacg cngtgcacatg nacgtcatag ctcttctata ggtgtccacc taaattcaat 360
tcactgggcc gntc 374

<210> 4046
<211> 53
<212> DNA
<213> Homo sapiens

<220>
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<222> (22)
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<220>
<221> misc feature
<222> (39)
<223> n equals a,t,g, or c

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<222> (45)
<223> n equals a,t,g, or c

<220>
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<222> (52)
<223> n equals a,t,g, or c

<400> 4046

3677

gggggaagtt ggaaaaaat gntattttta aattatggng cccntaaca tng 53

<210> 4047

<211> 403

<212> DNA

<213> Homo sapiens

<220>

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<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (243)

<223> n equals a,t,g, or c

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<222> (323)

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<222> (396)

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<220>

<221> misc feature

<222> (401)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (403)

<223> n equals a,t,g, or c

<400> 4047

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 tccctttcac aaaattttat tcctatatag tttattgaca ataatttcag gttttgtaaa 120
 gatgccgggt tttatatattt tatagacaaa taataagcaa agggagcact gggttgactt 180
 tcaggtagta aataacctca cctatgggtat aatgggtgac tgggtttctc tgtatagtac 240
 tgnctatggt cggagatggt tcacgaagtt tggtcatcag actcctgtgc aactttccca 300
 atgtggccta aaaatgcaac ttntttttat tttcttttgt aaatgttttag gtttttttgt 360
 atagtaaaag tgataatttc tggaattaga aaanantcga ncn 403

3678

<210> 4048
<211> 535
<212> DNA
<213> Homo sapiens

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<220>
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<222> (7)
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<222> (481)
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<220>
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<222> (499)
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<220>
<221> misc feature
<222> (514)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (516)
<223> n equals a,t,g, or c

<400> 4048
gntctgntgg aaagggccag gcactcagaa gtatcccatg cttgaaattc ttaattttat 60
ctttgaattht gtgtttttta agtgaagtcc aatgggacag gttctcagtt gccctggccc 120
actcgagctg ccctggggct tctccctacc ctccctgac ccactcttgc ccaggcagcg 180
ttgggattgc accctccgaa tctcagggca ggggtggctgg taccacagca cattaggcag 240
gcaagtgggc aggggcctct cacctgtccc atccctgcag ggaagttgca atccattagg 300

3679

gctgtagtaa cggggagtct gacttctgtg ctctgctcca ggccgggaat tttgcactgg 360
gccttgtaaa tcatgtanat ggcacagggg gatgagtacc attattatcc ctattttata 420
aagagagtat taaagagaag taacttnacc aactgcaaaa atgtctatac atatatccca 480
natggattta aaaaactang cccggccatg ggtngnctca aacctggaaa tccca 535

<210> 4049
<211> 123
<212> DNA
<213> Homo sapiens

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<220>
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<222> (5)
<223> n equals a,t,g, or c

<220>
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<222> (39)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (73)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (75)
<223> n equals a,t,g, or c

<220>
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<222> (101)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (103)
<223> n equals a,t,g, or c

<400> 4049
cgnncaccg ggccggaatt cccgggtcga cccacgcgc cggaaaaaaaa aaacattctg 60
cgaatgaaat atngnatggg gagaggttat aaaagacatt ngnaaaagcc caatttacag 120
ccg 123

<210> 4050

3680

<211> 252
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (197)
<223> n equals a,t,g, or c

<220>
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<222> (205)
<223> n equals a,t,g, or c

<220>
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<222> (220)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (238)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (249)
<223> n equals a,t,g, or c

<400> 4050
gaaatgcttt ctaactgggc ccccaactcc gcacccagc tcgcagtgag gccctgggtg 60
ggtcacctgc cctctctgga cttgtttctt caactggagg aggtccctgc ctatgctgac 120
attccattgt agaaaaatgg ggcctctggt gtctctttac caggggcaag tgcctctctg 180
cgggggagga aaagctnaag gttanctgtc ttaacccaan tgacttacca ggcctacnaa 240
atgagtcant tc 252

<210> 4051
<211> 282
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (101)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (115)
<223> n equals a,t,g, or c

3681

<220>
<221> misc feature
<222> (122)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (130)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (205)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (214)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (237)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (245)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (246)
<223> n equals a,t,g, or c

<400> 4051
gcacaaaact gattttaaaa tcaagttaat gtgaattttg aaaattacta cttaatccta 60
attcacata acaatggcat taaggtttga cttgagttgg ntcttagtat tattnatggt 120
anataggctn ttaccacttg caaataactg gccacatcat taatgactga cttcccagta 180
aggctctcta aggggtaagt ctgangatcc acangatttg agatgctaag gcccacanaga 240
tcgttngatc caaccctctt attttcagag gggaaaatgg gg 282

<210> 4052
<211> 143
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (27)
<223> n equals a,t,g, or c

3682

<220>
<221> misc feature
<222> (73)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (100)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (105)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (120)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (127)
<223> n equals a,t,g, or c

<400> 4052
gatgcccact cacttttaggg aaagctngta cgctgcagg taccgggtccg gaattccccg 60
gtttgaccca cgnnttcggc aaagcaacc cctgcttatn cacgnggaca ccaaggcggn 120
ccacggngcg gggaagcca cag 143

<210> 4053
<211> 131
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (17)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (101)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (122)
<223> n equals a,t,g, or c

3683

<220>
<221> misc feature
<222> (125)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (128)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (129)
<223> n equals a,t,g, or c

<400> 4053
accactact atttggnaag ctggcccgcc tgcaggtacc ggtccggaat tcccgggtcg 60
accacgcgt ttgctgagat gagggcttta gcctacaggg ntttttgaaa tgaaaggagc 120
tnagntannt a 131

<210> 4054
<211> 400
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (373)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (394)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (397)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (398)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (399)
<223> n equals a,t,g, or c

<400> 4054

3684

gcaacttaga agaaatcatt tagtgactta attctttcta aagatgaaat gggattgttt 60
tttactcgtc ttcttggta aatcattatt taagccgttc ttattgacca attcctgaca 120
cttgattgtc tctaatgct ttatccatca ccacctgggc tctgcatcc tcaactgtgga 180
atcaggcacc agccacataa tgttccagac aaagcctgga aggggtgtgga cccagacgtg 240
gagtggagtg attctcttga cgtttacata tatctctgtg tctctccatc attccaaagc 300
taaagtaca tgtttagaat aacttatttt ataaactctt cgggagacat gttgagattt 360
gaccgtaatg aangcccatt ttctgaaaa aaanaannnt 400

<210> 4055

<211> 156

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (26)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (56)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (81)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (91)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (106)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (109)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (134)

3685

<223> n equals a,t,g, or c

<400> 4055

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ggccnaccaa ccggttttgg ttggcncggc ccggcttggt ggggcctctt aaaggngccc 60
ttaacccaac cccttttcaa ngaaaagtgc naaccctggt ggggcnaana tggttggggc 120
ttacccttg gccnaatgcc gccaatgaag aaaagg 156
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<210> 4056

<211> 374

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (237)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (266)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (299)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (309)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (317)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (360)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (370)

<223> n equals a,t,g, or c

<400> 4056

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gggacctgga gcccattccg ggagccttgg acgctgtgcg ggagatgaac gacctaccgg 60
agtaaggaga gaggggggag ggcggagtcc tgggcgggct cctggctccc ggcggtaacc 120
gcgtccttct ccgcagcacg caggtcttca tctgcaccag cccctgctg aagtaccacc 180
```

3686

actgtgtggg tgagaagtac cgctgggtgg agcagcacct ggggccccag ttcgtanaac 240
gaattatcct gacaagggac aagacngtgg tcttggggga cctgctcatt gatgacaang 300
acacagttnng aggccangag gatgacccca agctggggagc acatcttgtt tacctgctgn 360
cacaatcggn acct 374

<210> 4057

<211> 193

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (90)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (113)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (154)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (168)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (173)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (180)

<223> n equals a,t,g, or c

<400> 4057

ggacgcgtgg gcggccgtga agtagcgttg gatgcgtgtg cctgtgtgtg tctgggggtgg 60
gggtgagggg cgcgccgggc cgcgtgctcn agtagaaggg gccggagggc ggnagacggg 120
tcggcgtggg catcctggac cctgggggct ggcnngggcg cgtgtgcngt ctnggagggg 180
ccgaggcggg gga 193

<210> 4058

<211> 345

<212> DNA

<213> Homo sapiens

3687

<220>
<221> misc feature
<222> (62)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (98)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (141)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (143)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (156)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (182)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (222)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (227)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (236)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (257)
<223> n equals a,t,g, or c

<220>

3688

<221> misc feature
<222> (264)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (274)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (283)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (344)
<223> n equals a,t,g, or c

<400> 4058
gattttctgga atggattttaa taggctgtgt ctaatgtaca aactgggtga gtcctgcctt 60
antgtgtcct gccccaccgg tacgcttcca ggatactntt ttccccctctg taaagatcac 120
tttctttctga tggccagtgt nantatgatg tcagtnaggt ctgggggatga tgacagtggg 180
tnctgaaatt cacaggactg actcctcacc ccagtgcacg angattnctg tggcangacg 240
gtgtgtctgt acctggncta ggancctaata catngaacca tcngctgtta cctcacatct 300
ctatgtctaca gaacatatca tgtctcaaga aggatttggg ggang 345

<210> 4059
<211> 397
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (263)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (301)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (361)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (383)
<223> n equals a,t,g, or c

3689

<220>
<221> misc feature
<222> (387)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (389)
<223> n equals a,t,g, or c

<400> 4059
ggtgagtatt aaatatttca gaagtgtgaa tttcatgtat ttgagctcct ctagttgctg 60
tcggtttttc ttctgctgcc aacctgtgac tcacaaatga ctaggatctc ttgttcttta 120
attttagggg cttgttccag gactcaaadc agtaacttgg tgattacaag gtgctgaatg 180
tgttggtaac catatcgcaa tacacctcaa ggaaaagggt cagattttta tttttaaata 240
attttcattt ttttcttgaa ttntatatcc gtttggtcac tcgtacatgc ctagecctaca 300
naaggggata tatattatga aatgggcatt tttctgaaga gaatattttg cttgaaatgc 360
naaggactga aagagatttg tangtngnt gattttg 397

<210> 4060
<211> 193
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (70)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (174)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (176)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (182)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (191)
<223> n equals a,t,g, or c

<220>

3690

<221> misc feature
<222> (193)
<223> n equals a,t,g, or c

<400> 4060
ttcggctgcc tgtacacctg ctgcctacat cttcttggca acaaagttac ctgccacagg 60
ctctgctgan cctatgtcct ggtcagtaat aactgaacag ttgcattctt ggctttggat 120
gctgtctgcg gacaatcttg ctgaggatct ctaccatatt ctgagcacac ggtntntttt 180
gntctaactt nan 193

<210> 4061
<211> 316
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (155)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (175)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (192)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (255)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (266)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (271)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (283)
<223> n equals a,t,g, or c

<220>

3691

<221> misc feature

<222> (294)

<223> n equals a,t,g, or c

<400> 4061

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gattggcaca tgggtggaca cggatctgct gggctctgcc ttaaacacac attgcagctt 60
caacttttct ctttagtggt ctgtttgaaa ctaatactta ccgagtcaga ctttgtgttc 120
atttcatttc agggctcttg ctgcctgtgg gcttncccag gtggcctgta ggtgngcaaa 180
gggaagtaac anacacacga tgttgtcaag gatggttttg ggactagagg ctcagttggt 240
gggagagatc cctgnagaac ccaccnacca naacgtggtt tgnctgaggc tgnactgag 300
agaaagattc tggggc                                     316

```

<210> 4062

<211> 103

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (53)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (57)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (65)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (81)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (83)

<223> n equals a,t,g, or c

<400> 4062

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gggaaaaaag ggccttgggg tttatccgtc tccttggcca aggggggttaa tcnccgnggt 60
tctcnggggg aaaatatctc ncncggggg ggttctgtat etc                             103

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<210> 4063

<211> 158

<212> DNA

<213> Homo sapiens

3692

<220>
<221> misc feature
<222> (88)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (99)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (127)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (145)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (148)
<223> n equals a,t,g, or c

<400> 4063
aatggcaaca cacaggaact ttgattagga aaacttgggc caggcacagg cagaagtcac 60
ttttcattca tccttgccaa cgtgtganct tcagaagant ggaaatgatg gactatcaac 120
accttcngcc tacgactcaa ataanaantt gatgactt 158

<210> 4064
<211> 74
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (20)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (21)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (45)
<223> n equals a,t,g, or c

<220>

3693

<221> misc feature
<222> (63)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (71)
<223> n equals a,t,g, or c

<400> 4064
ttttgggaaa aagccccccn ntttttgggg ggaaaaaaat ccccnnggaac ttgcaaact 60
ganttttttg nggg 74

<210> 4065
<211> 104
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (40)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (43)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (70)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (86)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (98)
<223> n equals a,t,g, or c

<400> 4065
gctagaggag tttgtatcaa tttgtgagta ttaatgtcan gtnctaccag cactttgcca 60
aaactgtcan agggaccctg ttctanagtg agtcccantt acat 104

<210> 4066
<211> 70
<212> DNA
<213> Homo sapiens

3694

<220>
<221> misc feature
<222> (49)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (52)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (64)
<223> n equals a,t,g, or c

<400> 4066
gctcaagggtc tcctccttcc ctcccccccc ccccccgtea tatcttttnt tngttttttt 60
aaanttagga 70

<210> 4067
<211> 53
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (12)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (31)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (34)
<223> n equals a,t,g, or c

<400> 4067
gcggtttctg gntccgacgg tagtgggtag nggntctcgg gttgcggggtt gca 53

<210> 4068
<211> 202
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (3)

3695

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (13)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (14)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (18)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (42)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (158)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (166)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (174)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (181)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (202)

<223> n equals a,t,g, or c

<400> 4068

ccngtgaaat tanngctntt ggggacatga aatatatgga gngataaatt atagaacaca 60
gtattccaag aataaagtag tcttgagggt ccttcctgat tcaccctggg gtacacacag 120
gtgcatactc cctgcctctc acccatccag agaaaaacnct ttgcantgac tcangtccaa 180

3696

nagcactgct cttgggtgga an

202

<210> 4069

<211> 348

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (284)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (324)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (330)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (345)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (347)

<223> n equals a,t,g, or c

<400> 4069

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ggtttatgga tttttaaaag tctcattagc aatgatttct gagttttaaa caatttgtgt 60
gtatgaatga acttccggca tttgggaaac ttaatctgct ccatggatat aattgtaatt 120
gttttacatg ggaatttaaat acaaacctaa caatcaaadc cctctcatta aattttacat 180
tcattcacta taaatggact agatttttaa actcagaaac ctaaaaataa gatgaagtta 240
gacaacttta gattttgtgt ggtgtgtaca tctatgtgca cagnatgtaa attatctttt 300
attggattgc ttaatagaat aaanaagtan aaatttaatt cctgngng 348
```

<210> 4070

<211> 115

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

3697

<221> misc feature
<222> (71)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (75)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (95)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (97)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (111)
<223> n equals a,t,g, or c

<400> 4070
agagnccaaa aaggccacgg gataaacgga caccgcagaa gagataaaca cagagatata 60
cagggaataaa natanacaca gagagatata gaacncncaa ccggcagata nacag 115

<210> 4071
<211> 52
<212> DNA
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3698

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<400> 4071

gatggaagta atttagattt ggaanantca tacataaaat gattntagtn ca 52

<210> 4072

<211> 89

<212> DNA

<213> Homo sapiens

<220>

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<220>

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<222> (82)

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<220>

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<222> (88)

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<400> 4072

gctcttcctc tcaggcgggc agggcttggg cagcggcctg agtctcagcg gacttgncga 60

ccctcgagtt gaatcggntt gnngagcng 89

<210> 4073

<211> 100

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<220>

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<221> misc feature

3699

<222> (43)
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<220>
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<220>
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<223> n equals a,t,g, or c

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gcgggngtga gtntgttntg ttgatgacca atgggggaaaa 100

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<211> 52
<212> DNA
<213> Homo sapiens

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3700

<400> 4074
gggtgttgctt ttacggncan agctgactnt gttgaggntg angttaaaag tg 52

<210> 4075
<211> 256
<212> DNA
<213> Homo sapiens

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3701

<222> (234)

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<400> 4075

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gtccggaatt cccgggtcga cccacgcgtc cgctcccca atgcaggcca cttctcctcc 120
ctcctctcta aatgtantcc cctctcctcc atctaaaggc aacattcctt acccattant 180
ctnagaaatt gtcttaagca acagcccca ntgctggctg ccccancca agcnttgggg 240
ccgccatcct gcctgg                                     256
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<210> 4076

<211> 171

<212> DNA

<213> Homo sapiens

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<220>

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<222> (53)

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<220>

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<220>

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<222> (57)

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<222> (119)

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<220>

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<220>

3702

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<220>
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<220>
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<222> (165)
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<400> 4076
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tcaaccttat tgatagaaga gaacttgcac cactccaaga actgattgaa aaactcacnt 120
canaagacag ataaaaggat gcanagcttn tgcaaattgg tcctnaaatg a 171

<210> 4077
<211> 331
<212> DNA
<213> Homo sapiens

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<220>
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3703

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<220>
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<222> (310)
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<220>
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tttagataat aaagaagctg tcatcctaan ggaaaaacct ccatctggac gccagacacc 120
gcagccttta aggcatcant cttacatctt ggcagtaaat gaccaggana ccangtcaga 180
cactacctgc tggctgncca atgatgcacg tcagagggtcc acataataag aatggaggaa 240
agaaaagcct cgagtccaat cccgctggcg antctttgnc ttncatccca tttatagagt 300
cctctgatgn ccagnctgga gtgcaattgg c 331

<210> 4078
<211> 152
<212> DNA
<213> Homo sapiens

3704

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<220>
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<222> (14)
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<400> 4078

3705

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cggaggagcc gggctgatgc ggggctgctc agggcaggcc cnagggcgag ctngccatng 120
aggccaggca gctncacct gtgctncagt gg 152

<210> 4079

<211> 166

<212> DNA

<213> Homo sapiens

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<220>

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3706

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ttaaaataca tataaatgct tgacattatt atacatgtaa gtggaataga aatagaaaca 120
gaaaataaat gcttcaaggt gttttacacc ntgaaaaaan aantnn 166

<210> 4080
<211> 100
<212> DNA
<213> Homo sapiens

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<220>
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<222> (62)
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<220>
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<222> (74)
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<222> (88)
<223> n equals a,t,g, or c

<220>
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<222> (93)
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<400> 4080
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gncagcctgc tatnaccatc agtcagcngg atntaatcaa 100

<210> 4081
<211> 136
<212> DNA
<213> Homo sapiens

3707

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<220>
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<220>
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<222> (133)
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<400> 4081
tgactgnaat gaaaagaacg nggccttttt gcaacgcttg aacctgagat caaggntgtc 60
attgagcanc ttnaacctgg gcaccaccct gggttgcaac ttgcaaaaaa ccttcggatt 120
tggggggatgg gnnacc 136

<210> 4082
<211> 277
<212> DNA
<213> Homo sapiens

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3708

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<220>
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<222> (135)
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<220>
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<222> (199)
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<220>
<221> misc feature
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<220>

3709

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<220>
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<222> (223)
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<222> (240)
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<400> 4082
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cgcgtccgaa gaagcgaaat ttattcttgg atcagacaaa tgtgtctgct tgcttgccca 120
gaaggagaaa aatgngcctg tnttcaggct ttccnncgaa aacttggttg aagttggcca 180
aaagatgaag actattgcna aagaccagn ataaacntaa ttnaagggaag agactaccan 240
acatgcggtc ttaaaatgaa aggaactttc ctccaaa 277

<210> 4083
<211> 415
<212> DNA
<213> Homo sapiens

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3710

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<221> misc feature
<222> (323)
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<220>
<221> misc feature
<222> (346)
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<220>
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<222> (402)
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<220>
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<222> (407)
<223> n equals a,t,g, or c

<220>
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<222> (415)
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ggtccggaat tcccgggtcg acccacgcgt ccgcaaatta ttagtgtata actctgaatt 120
gaatttagat ctctttgatt ccaaggcttg ggatcttaca tgccccctta ttaggttagga 180
atagatactt catgaagatg ataacatgcc atctacagaa tatgatatgg cattgatgtg 240
acactttacc tacaaaatat cttatttctg agtccttcgc aagagaaaaa gcaattttat 300
ttttatggga caagattgga tgntacattt ttaatcaatt acatgnaagt gtattctacc 360
tttaaaattg ctatggaaaa gttaattat ttccaacagg anttatnact atcan 415

<210> 4084
<211> 303
<212> DNA
<213> Homo sapiens

<220>
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<220>
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<222> (19)
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<220>
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3711

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<220>
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<220>
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<220>
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<220>
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<220>
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<220>
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<220>
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 <222> (302)
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 ccgggtcgac ccacgcgtcc ggccccgcag ctctccggg agcccgctgg taactcgcgt 120
 ccctcgcgct tctccggcgc ctgaggggcc cgcctcgggc catggtgctc tcccaggagg 180
 agccggactc cgcgcggggc acgagcgagg cgcagccgct cggccccgcg cccacggggg 240
 ccgctccgcc gccggggccg ggaccctcgg acagccccga ggcggctgnc nagaangngg 300
 ang 303

<210> 4085
 <211> 122
 <212> DNA
 <213> Homo sapiens

3712

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<220>
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<223> n equals a,t,g, or c

<220>
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<222> (59)
<223> n equals a,t,g, or c

<220>
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<220>
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acgggtatcac acttatattt tatgaacatt gnactgggtgc tntaatatga gcttnantat 120
aa 122

<210> 4086
<211> 148
<212> DNA
<213> Homo sapiens

<220>
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<220>

3713

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<220>
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<222> (26)
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<220>
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<222> (128)
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<222> (133)
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<220>
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gctcgatcac atcncctctca tacatcattc attnaagcat ttcttttagcc cacgggatcca 120
gacccaantg cntgtgtatgt gnagatac 148

<210> 4087
<211> 177
<212> DNA
<213> Homo sapiens

<220>
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<220>
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3714

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<220>
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<222> (70)
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<220>
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<222> (96)
<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

<220>
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<222> (160)
<223> n equals a,t,g, or c

<400> 4087
cggccccggaa ttccccgggtc gacccacgcg tncggtagga gtcaatgatn acatcctagt 60
nttaacaagn tacagataat cgctgactgg catgtngtct gcttctagct tggagctaaa 120
tgctgctcat gctgaaaaga ataatgncta tntctttgmn tgggtattag ctctatt 177

<210> 4088
<211> 317
<212> DNA
<213> Homo sapiens

<220>
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3715

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<222> (317)

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<400> 4088

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acgcgtccgg anttaggtct attaggataa ttaggagttt gancccatca acactattct 120
tgtagcagtt aggaatcttg agctatTTTT ttctcatagc attactatag tccagttttac 180

3716

caaagttttc tttagatgtc tgataatctt gagatgattg cttaccttaa aaggtataga 240
aaggatcact taaatatatg gaaaaatgaa ataagggtga agctgaataa agnnctactt 300
actgnattaa aaaaaan 317

<210> 4089

<211> 548

<212> DNA

<213> Homo sapiens

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<222> (375)

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<220>

<221> misc feature

<222> (392)

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<220>

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<222> (415)

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<222> (477)

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3717

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<222> (519)

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<220>

<221> misc feature

<222> (547)

<223> n equals a,t,g, or c

<400> 4089

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tcaactttaat ctttcattgg cctatagcag ccagtggggt cttttaaaaa attcttttcc 180
ttcatattcc ccgtttgagc ttaaggtaca aaaaaagaaa atactcttga aatgctgtga 240
ccagatctag actgtaacat gccccttcgc tcctctggtg aggaagtgcg ggaaggtgga 300
agacattgag gggttgatta ttactncgt ttggaagtaa gaagggaggt agctcttatt 360
tggaataaga gctgncttca gaacagggtg gngctctcct gaagcccaga gctgngactc 420
cctgggtgtg tctcttacct gtgcccttgg gcaagtggca cgggagaaga atacgannag 480
aggaggatgg tacagacaga ggagtcacan gctgaacang ctgtcaccgg ggcaagatga 540
ctgacang                                     548
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<210> 4090

<211> 51

<212> DNA

<213> Homo sapiens

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<220>

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<222> (45)

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<220>

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<222> (46)

<223> n equals a,t,g, or c

<220>

<221> misc feature

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<400> 4090

3718

gctcaaggtc tctctcttcc ctcccccccc ccccccgta ttnanntgnc c

51

<210> 4091

<211> 402

<212> DNA

<213> Homo sapiens

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<222> (370)

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<222> (375)

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<222> (381)

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<222> (402)

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 tccctccacc gggccacccg caccagggtg cctcccatcg tttgcaggag cggaagaccc 120
 gatggagcag gtttcacagt gccctcgctg ctgcctcccg tttcatctgc acgtctcttt 180
 caatgcgggc gtgcgaactt ccaggtagag ccgagttcaa gaaaatgaag tactgcatgc 240
 gacgagcaag tttattgaag aggggtgtgag gtcgcggcgc ctgaccctca ttatgtcaag 300
 ttactactaa atgaaattag aacttcaactg ncctttttct ttttcccatc gaggtgcaag 360
 aggaattgan cttanggtag nattttggga tttaaaaaaa an 402

<210> 4092

<211> 214

<212> DNA

<213> Homo sapiens

3719

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<220>
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<220>
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<222> (183)
<223> n equals a,t,g, or c

<220>
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<220>
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<220>
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<400> 4092
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ccggaattcc cgggtcgcacc cacgcgtccg aangactaca gagccccgaa ttaataccaa 120
tagaaggggc aatggctttt aaaataaaaa tgaaagggga attaaaacag cttaaangtt 180
aanttaaaaa gtggnagggg aataaaaanaa nttg 214

<210> 4093
<211> 98
<212> DNA
<213> Homo sapiens

3720

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<222> (30)
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<222> (55)
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<220>
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<222> (69)
<223> n equals a,t,g, or c

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cggaattcnc gggtcgaccc acgcgttcgc taatccag 98

<210> 4094
<211> 146
<212> DNA
<213> Homo sapiens

<220>
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<220>
<221> misc feature
<222> (17)
<223> n equals a,t,g, or c

<220>
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<220>
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3721

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<222> (113)

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<220>

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<222> (119)

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<220>

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<222> (126)

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<220>

<221> misc feature

<222> (138)

<223> n equals a,t,g, or c

<400> 4094

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gaattcccgg gtcgaccac gcgcccggtg gcatggggga aaatcgagtg ggnccaggng 120
ggcaancgaa gcaaggcntt ggcgtc                                     146
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<210> 4095

<211> 279

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (51)

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<220>

<221> misc feature

<222> (258)

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<220>

<221> misc feature

<222> (259)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (263)

3722

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (272)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (274)

<223> n equals a,t,g, or c

<400> 4095

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tgattactgt aaattaagat ataaatggct atttgaataa tttataacctg tgggaattaa 120
ctggagtatt tgttatttga ctgttttcta ttaaggaata ttaggcttgg tgctatgatg 180
aatgatcttg taaaatcatg tgtattctta agaaaatttt tgaatataaa tttcttgaac 240
tgacaaaaaa caaaaaanna atntataaaa tnanaaaat 279
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<210> 4096

<211> 281

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (45)

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<220>

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<222> (155)

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<220>

<221> misc feature

<222> (178)

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<220>

<221> misc feature

<222> (195)

<223> n equals a,t,g, or c

<220>

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<222> (211)

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<220>

<221> misc feature

3723

<222> (240)
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<220>
<221> misc feature
<222> (241)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (258)
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aggaagctgg ccccttgcag aactgtactg aaaaattttt aataaatatt ttcacaggac 120
tgaattgacc acaggggctt gtaataaaaa ttttnacact ggagctggga aaaccaanct 180
attgggggga aatcntccaa tttggaaagg nctacctttc atggggccac cctggaaaan 240
ntgggaagtg ggtaaatnag cctaattgaa ctttttccta a 281

<210> 4097
<211> 222
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (171)
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<220>
<221> misc feature
<222> (181)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (188)
<223> n equals a,t,g, or c

<220>
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<222> (203)
<223> n equals a,t,g, or c

<220>
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<223> n equals a,t,g, or c

<400> 4097

3724

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atggatcacg gagctgacca tctttacctg gtcttggaaac tgaaaaactg tagcttgtgt 120
gaaaatgagc ctttggacca gtctttatta aaacaaacaa acatgaaaaa naaaaaaaaa 180
natctaanaa aaaaaaaaaa aaaaaaaaaa naaaaaaaaa aa 222

<210> 4098

<211> 235

<212> DNA

<213> Homo sapiens

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<222> (14)

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<222> (123)

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<222> (183)

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<220>

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<222> (209)

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<222> (210)

<223> n equals a,t,g, or c

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<222> (223)

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<220>

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<222> (226)

<223> n equals a,t,g, or c

<400> 4098

3725

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cggaattccc gggtegaccc acgcgtccgc ggacgcgtgg gagaatatgg gataagtagt 120
cangatcaga aaggtgagac aataaaaaca agatatattc caaagcctaa tcctaaattc 180
tgnttcaa at tctttatcat atttcaagnn ctttctcata ctncantgat cttgg 235

<210> 4099

<211> 66

<212> DNA

<213> Homo sapiens

<220>

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<220>

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<222> (43)

<223> n equals a,t,g, or c

<220>

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<222> (50)

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<222> (53)

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<220>

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<222> (65)

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<400> 4099

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taatnt 66

<210> 4100

<211> 454

<212> DNA

<213> Homo sapiens

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<220>

<221> misc feature

3726

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<220>
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<222> (404)
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<220>
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<222> (441)
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<220>
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<222> (448)
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gaaaaggcag ttatgaagcc aattcatttt gaaggaagca caatttccac cttatttttt 120
gaactttggc agtttcaatg tctgtctctg ttgcttcggg gcataagctg atcaccgtct 180
agttgggaaa gtaaccctac agggtttgta gggacatgat cagcatcctg atttgaaccc 240
tgaaatgttg tgtanacacc ctctttgggt ccaatgaggt agttgggttg aantagcaag 300
atgttggnct tttctggatt tttttgccat gggttcttna cttgaccttg gacttttggc 360
atgattctta gtcatacttt gaacttggct cattccactn tttntcagag caactcttcc 420

3727

tttgggaaaa gagttnttca natcatanac cata

454

<210> 4101

<211> 66

<212> DNA

<213> Homo sapiens

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<222> (16)

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<220>

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<222> (27)

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<220>

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<222> (57)

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<400> 4101

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cagcta 66

<210> 4102

<211> 68

<212> DNA

<213> Homo sapiens

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<222> (40)

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<220>

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<222> (41)

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3728

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<220>
<221> misc feature
<222> (68)
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<400> 4102
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aatcttgn 68

<210> 4103
<211> 349
<212> DNA
<213> Homo sapiens

<220>
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<222> (54)
<223> n equals a,t,g, or c

<400> 4103
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tcatcccttg tcatagcatg tggctctaaa ttttcagcct cattcacagt agcttgcatt 120
gttgatttgc ttttgggaca cctgtgtttt atctggaaat gtagacagga atagcggttt 180
tttttgtatg tgtattatat attgtttcac tgctaattctt ctacacaatt ttttagaata 240
aaaaagggta aatagcttgc gccattttgc taattacata gatttgactt ttgatcacat 300
aaataaaaaa taaaacaagg caggacattg tcctgcacat agttgaaaa 349

<210> 4104
<211> 227
<212> DNA
<213> Homo sapiens

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<222> (19)
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<220>
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<222> (43)
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3729

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<222> (65)
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<222> (72)
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<220>
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<220>
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<222> (195)
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<220>
<221> misc feature
<222> (217)
<223> n equals a,t,g, or c

3730

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cgaangcgcc gntgagacct cagccttgac ctccctcaga cgnggccggg accctgagcc 120
nctgcncaaa gccacccgcc ccgacgtact taggcgggnat agccctgaga cctctggnca 180
gcgccaggca ngcancgggg gcgaaagagg cctgggnctg agacttc 227

<210> 4105
<211> 147
<212> DNA
<213> Homo sapiens

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<222> (13)
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<220>
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3731

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<222> (142)
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<220>
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<222> (145)
<223> n equals a,t,g, or c

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cagggaccga ccaggggaga tggggaggag atatggagtg agacacctgc tccagaagaa 120
gccagcnttc tctanncagg gngcnaa 147

<210> 4106
<211> 190
<212> DNA
<213> Homo sapiens

<220>
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<223> n equals a,t,g, or c

<220>
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<222> (43)
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<220>
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<220>

3732

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<220>
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<220>
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cggctccggaa ttcccggggtc gacccacgcg tccgaaaagt agccctcttt ctcctggatc 120
ttgctgaggg agnggctngg ggggtggggg agataaaaaa gaacttaaaa tgggnaaagn 180
aagaaatgnt 190

<210> 4107
<211> 625
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (10)
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<220>
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<223> n equals a,t,g, or c

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<220>

3733

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<222> (231)
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<220>
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<222> (349)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (425)
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<220>
<221> misc feature
<222> (504)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (542)
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<220>
<221> misc feature
<222> (546)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (609)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (619)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (622)
<223> n equals a,t,g, or c

<400> 4107
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3734

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cgggtcgacc cacgcgtccg gtctacaacc acgtaatatc cttttcatca gccttatgaa 120
attttcccc aatttatcca agtcaggatt tcagtatgca gaagtctaata gtcattcttg 180
agagttcatt gtgcctcccc catatccaag accatttact aaaaccttag ntcagtcttt 240
aaagagtcac aagatcctat tatgcctagt tttttttcca gtcttttaag tctattcctt 300
accttgccaa aaaagtacct gtttctatgg ttttaacaaat ggagcttana atatggaact 360
atgacaaaaa tacctgctac atgcttcctt ctgtatgaat acatgagacc taccttcatt 420
catgnttcct ctatgaagct ttccctgcac tccaaacaca gagctgagac ttccacctaa 480
tgtagaaagc tagcacgagc cggngctgac agatggaaga cttgagatgg tacaagatta 540
tntatnggaa acacaaaagg gagatacccg gagccatgac agactgggat ggggctgggg 600
ggacaggtna agcaagacnt tnata 625

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<210> 4108

<211> 64

<212> DNA

<213> Homo sapiens

<220>

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<222> (38)

<223> n equals a,t,g, or c

<220>

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<222> (51)

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<220>

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<220>

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<222> (64)

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<400> 4108

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ggttctagat cgcgagtggc cgcccttttt ttttgggnntt tttttttctt nancataaaa 60
cgnn 64

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<210> 4109

<211> 56

<212> DNA

<213> Homo sapiens

<220>

3735

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<400> 4109
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<210> 4110
<211> 502
<212> DNA
<213> Homo sapiens

<220>
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<220>
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3736

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<220>
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<222> (453)
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<220>
<221> misc feature
<222> (468)
<223> n equals a,t,g, or c

<220>
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<222> (498)
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<400> 4110
gtggttagaag gacccaaggg gaatgggttg aaggcatgtc atagaaggag aagataaaga 60
aagcccagat gattttttgcc tgtagaagag gagggctgat gggattcaac tgcctaagtt 120
tgtatctaaa tcttggttta tggaattgag gttacatttt gtttgatgg ctcttaagaa 180
cagaattcag atttctgcct ttgaaaaagg ggaaaccctt taccaattan gattattaaa 240
aaatggaatt tctctgcatt ttgagatagt aaactctaca ttgaagtatt ctgctacttg 300
ttanaaattt tgntcaaaac tttaagcatt aaatggggaa ttgggtctgga tgactgttaa 360
gatccccaag agaatccaaa tttttgatct tagctgcaat taaagatggt tataaatgct 420
taacanctgn tctacctact tccttattct tangatgtat tactattnca tatttaaacg 480
atcactcaag gaccattnaa tc 502

<210> 4111
<211> 139
<212> DNA
<213> Homo sapiens

<220>
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3737

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<222> (90)
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<220>
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<222> (128)
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cttggattct nctgctagct gcctcccatn atcttttttg gagggccgctc tcttgctgtg 120
gggaagantg ggctggctg 139

<210> 4112
<211> 377
<212> DNA
<213> Homo sapiens

<220>
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<220>
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<222> (27)
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3738

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<220>
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<222> (369)
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<220>
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<222> (376)
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gtccggaatt cccgggtcga cccacgcgtc cgtttgaatt tttgagttat caatgtactg 120
aagtctcttt ntaatnttat ngggtggttc agtgnnggtca gngccttgag tgtttcaaga 180
tctctattct ggatttttagt ttagctttta ttgactntct aggttgtggc cattgcctga 240
aatacatgac agtgagctca cagaaacctt atactttgaa tttcacaaaa atcatataat 300
gttaggttct tgcttgcttt ccctttatnt nttttactgt caataaaata ctgatcctga 360
aaaaaaaaana aanaana 377

<210> 4113
<211> 530

3739

<212> DNA

<213> Homo sapiens

<220>

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<222> (13)

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<220>

<221> misc feature

<222> (281)

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<220>

<221> misc feature

<222> (385)

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<220>

<221> misc feature

<222> (398)

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<220>

<221> misc feature

<222> (447)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (468)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (469)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (484)

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<220>

<221> misc feature

<222> (491)

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ggctgtgagt gtaaaacat aactgttaga atcatttttt tggcaatagc tcacattctg 120

3740

ttaagagtca tttgcttttaa tcaaagatca tgatttatta tatatTTTTT ataagtaggg 180
atggggccaa gattattcct ttggcacagc agtaagtgtg ctcaagatct ttgcctgtaa 240
gcttgaatat ttggcttaaa ttttgtgcat atgaatactg ntaaagggtat atttgactac 300
atTTTgaaag gaaaaaggta gtCctgctaa aattgacatt tagggatatt ttaatctatg 360
tatttggtaa aggtaattag tgaangtatt aagttatnaa aattTTTaagg gaaaacattt 420
aaaaagcaaa atagtccgta tcagatnaat agaggtagaa taccactnna gattaaacaa 480
ggcncTggta ncaatgaagg ttgtcttTgtt cagacgactg agatatttaa 530

<210> 4114

<211> 68

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (44)

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<220>

<221> misc feature

<222> (55)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (62)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (65)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (67)

<223> n equals a,t,g, or c

<400> 4114

ggaaaagaga aagagaaaag gaattaattc aatcctggca gaantgattt atatnctgat 60
tngancna 68

<210> 4115

<211> 211

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (17)

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3741

<220>
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<223> n equals a,t,g, or c

<220>
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<222> (73)
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<220>
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<220>
<221> misc feature
<222> (193)
<223> n equals a,t,g, or c

<400> 4115
cgcggtgggt accggtncgg aatggccggg aagaccang cgtacgaaaa aaattatctg 60
ggttaataag ganatntata aaaggcncaa gaatctgagg actagatgtc ataaatatga 120
aataggtaaa aacaagggtca cnagaaaatg ggtanttaag aacttanctg gtgnggtaag 180
aagcatcacag aantggaaag gtaagaactt g 211

3742

<210> 4116
<211> 101
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (12)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (14)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (21)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (67)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (82)
<223> n equals a,t,g, or c

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aaaagaaaaa cntnaaataa ntgacttgat tttacacaac atccttccct tttctacaag 60
ttaattnttt tacaaatcat tngggatata tcctaaatag g 101

<210> 4117
<211> 440
<212> DNA
<213> Homo sapiens

<220>
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<220>
<221> misc feature
<222> (46)
<223> n equals a,t,g, or c

<220>

3743

<221> misc feature
<222> (75)
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<221> misc feature
<222> (98)
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<220>
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<222> (106)
<223> n equals a,t,g, or c

<220>
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<222> (108)
<223> n equals a,t,g, or c

<220>
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<222> (113)
<223> n equals a,t,g, or c

<220>
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<222> (271)
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<220>
<221> misc feature
<222> (284)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (291)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (360)
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<220>
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<222> (402)
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<220>
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3744

<222> (414)
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<220>
<221> misc feature
<222> (434)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (440)
<223> n equals a,t,g, or c

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ggccatttct cacagaagat tnacactgga agctgatgaa aggatngaata aatggagagc 60
accactttcc tgcantgat cacacagcaa acataaanca tggatngnca atntatttgg 120
aggcacagcg ctcccccggtg gtggccaagc ttggaagtcc tgttcttaca aaattgctca 180
ctgcctctac cccatgtcag atcttataaa ggtgcagcaa gtgtggcaat aagcagactg 240
aggaaggcat aaaggggtctg atgtgaagca nagaaggcag agngggctga nggtttggag 300
taaaatcgag aatggccatg aagatttgac caaggagctc tgagattgag aaggaattan 360
aacgaagtcc acagggaagt tgagaaaatt ggcagaaaat tngaagagga gggnttcaac 420
aggagatgat caanattaan 440

<210> 4118
<211> 69
<212> DNA
<213> Homo sapiens

<220>
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<222> (51)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (54)
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<220>
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<222> (65)
<223> n equals a,t,g, or c

<220>
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<222> (67)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (68)

3745

<223> n equals a,t,g, or c

<400> 4118

gcaagtactg caagaaatgg caggatgagg gatggcaaga aagcagctgg naanaaaggg 60
atttnanna 69

<210> 4119

<211> 196

<212> DNA

<213> Homo sapiens

<220>

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<222> (88)

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<220>

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<220>

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<220>

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<222> (121)

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<220>

<221> misc feature

<222> (124)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (129)

<223> n equals a,t,g, or c

<400> 4119

gcgaggcgct gctggcgagc tggagccagg cacagctgag cgacggggag ctgggcccgcg 60
aggtggagcg ctggctgagc cgcgcccnag aacaagtacc ccgcggngcg cntgcccag 120
nagntgcanc gcgtgtggcg cgggcacacg gacaaggtgt tggggctggc ccggggccctg 180
tgggcccagg gacggc 196

<210> 4120

<211> 198

<212> DNA

<213> Homo sapiens

3746

<220>
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<220>
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<222> (69)
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<220>
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<222> (113)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (137)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (151)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (183)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (198)
<223> n equals a,t,g, or c

<400> 4120
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tgccaacana ggatctgtgc ctcagctgaa gactagctcc ggaatgtcat aanggggtgtg 120
actgtgtatg ctttctnctt cttctcgatt ntgtggcatg gcacaagttg gctgggtgct 180
ttnacctttc ccatggtn 198

<210> 4121
<211> 93
<212> DNA
<213> Homo sapiens

<220>
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3747

<220>
<221> misc feature
<222> (10)
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<220>
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<222> (22)
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<220>
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<222> (35)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (40)
<223> n equals a,t,g, or c

<400> 4121
aattcctntn tcgatccacg cntccgcaat gtccnggcan atagtaatta attaagaaaa 60
tcgtgcaccc ttgttaccta gaatgcacgg atg 93

<210> 4122
<211> 52
<212> DNA
<213> Homo sapiens

<220>
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<220>
<221> misc feature
<222> (34)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (36)
<223> n equals a,t,g, or c

<400> 4122
gaaaaaaaaat agctgtncaa taagtagatt taangnaatt agaacacttt at 52

<210> 4123
<211> 338
<212> DNA

3748

<213> Homo sapiens

<220>

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<220>

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<222> (49)

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<221> misc feature

<222> (71)

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<220>

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<222> (74)

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<220>

<221> misc feature

<222> (113)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (171)

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<220>

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<222> (268)

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<220>

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<222> (291)

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<220>

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<222> (294)

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<222> (300)

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3749

<220>

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<222> (330)

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<400> 4123

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ttcctgggcg ancacgcgtc cgggagagct cccctgcac cgtggggcnc agccagagaa 60
ggcctgggac naanacccac tggggggcct cccacggagc agccagaggg gcnaggctgg 120
gtggggggcc ggagcacctg ctgcacctgt attcaggggtg gatttttaag naagatctcg 180
ttgtagccgt gtcgctttcc taccaggagg cccatgacat ccggctgtct ctctggtaat 240
gttcatatca atgacggttg ttacctngt cattatctca ctggggctgt nacnggggan 300
agtttattct atactttctt catttaccan ctgcaatg 338
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<210> 4124

<211> 169

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (20)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (24)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (31)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (46)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (122)

<223> n equals a,t,g, or c

<220>

<221> misc feature

3750

<222> (137)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (139)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (151)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (161)
<223> n equals a,t,g, or c

<400> 4124
aacctantgc cattcgggcn ttntatcag natcttttct aattgngagc atgtgtatga 60
gactatttat acccaaggat atgaaggaac ataatgtgac tacaaggctc taataagcca 120
cngagggcag gaggctnang cggttctgtt nactaaattt ntctcctgt 169

<210> 4125
<211> 274
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (38)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (207)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (222)
<223> n equals a,t,g, or c

<220>
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<222> (239)
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<220>
<221> misc feature
<222> (245)

3751

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (269)

<223> n equals a,t,g, or c

<400> 4125

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aacattctat gcatatttgg ttgttatacc aattcatnaa tgaattcata aaatgactat 60
gaaaaaaatt atatgctatg ggatactggc aacagtgcac atatttcata accaaattag 120
cagcaccggt cttaatttga tgtttttcaa cttttattca ttgagatggt ttgaagcaat 180
taggatatgt gtgtttactg tactttntgg tttgatcccg gntgtataaa tgatagcant 240
atctnggaca catttgaaat acaaaatgnt ttgt                                     274
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<210> 4126

<211> 151

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (34)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (47)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (63)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (66)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (108)

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<220>

<221> misc feature

<222> (136)

<223> n equals a,t,g, or c

<220>

<221> misc feature

3752

<222> (140)

<223> n equals a,t,g, or c

<400> 4126

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tcggggtttcc ccggggaaaaa tttcccccg gggnttccgg acccccnacc ggccgttccc 60
cgnacncctt ggtttgggtt ttaaattaaa aagggtttttt tttcaacntt cttggggccaa 120
aaaaaaaaaa aaaatntttt tataaaaaag t                                     151
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<210> 4127

<211> 241

<212> DNA

<213> Homo sapiens

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<222> (154)

3753

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<220>

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<400> 4127

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ctccaggtnc ccgcggccct ccgccacgcc agctctcncg gtcttagcaa caaggnggct 120
gaccgccgmn ccctgcagcg gctgatcccg tggncctgc agacccagcc aacacccagc 180
ggtcccagag cgncccgct gctacccgcn gtggngggca cccgatggcc ggcgagggng 240
c 241
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<210> 4128

<211> 286

<212> DNA

<213> Homo sapiens

<400> 4128

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tgattcaagg gactatgtca ctacagctca tttgctggac caaatctgga gggagaaccc 120
ctaaaacccc taagtgaggt tgcccagggg gttgtcccca ggtgggggga agcaggggag 180
agaaaatggt agccattttt acattgtttt gtatagtatt tattgattca ggaaacaaac 240
acaaaattct gaataaaatg acttggaaac tgccaaaaaa aaaaaa 286
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<210> 4129

<211> 151

<212> DNA

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<220>

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3754

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<222> (43)
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<220>
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ggttccggg aaaccccc aaaggggcc ggttttccc cgtnaaaaac ccttttcact 120
tttgggggn ttntaanaaa aagaaanata c 151

<210> 4130

3755

<211> 149
<212> DNA
<213> Homo sapiens

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<220>
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cgttcgagag tgtctaatcc tgcantcatg gcgcangaag aggaagatgc tananattac 120
aatttgacct gaanaacata aggcgatca 149

<210> 4131
<211> 266

3756

<212> DNA

<213> Homo sapiens

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<222> (252)

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<222> (254)

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<220>

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atntagcat gttaacttct gtngtgtttt gaattctctcc agagttgcat gtagatagca 120

3757

tttattttctg tgcccttaaa cccatttana aaataactac aaagtaaaaa tgtagaggaa 180
atagaaatgt attttttcat gaacattttg atacaaattt catcatttaa tgattcacca 240
nagttctccg tntngtcnat tttna 266

<210> 4132

<211> 132

<212> DNA

<213> Homo sapiens

<220>

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<220>

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<222> (3)

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<222> (15)

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<220>

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<222> (110)

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<222> (111)

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<220>

<221> misc feature

3758

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<220>
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 tgtgtcactt tttaaactctg aaagccttct gatgatcaca atactntatn nggctataaa 120
 tmnaatccac at 132

<210> 4133
 <211> 274
 <212> DNA
 <213> Homo sapiens

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<220>
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<220>
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<220>
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 gtttcactta ggtgctcttc ctggtttttag aattccctga atgggcagtt tgacaggtaa 120
 atgtgggtcca aatcagtcgt tctttttacc acttaaaaaa aaaattttcc tttgtagttt 180
 ttttgctgtc tccccgtagc ctaaattgtg gctgagctgc ctgaagcatt cctctgcttt 240
 agaaaagaat tatccctagt ggcaaaaaan nnnn 274

<210> 4134

3759

<211> 433
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<220>
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<222> (396)
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<220>
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<220>
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3760

cccagggccc aggagggaca gtgcctggag cctgngnnag gcccagccca tctgtgtgtg 120
tgtatgtgcg tgtgatgcta cctctcctcc cgctccctctc caggggcccc gcatacacac 180
ggccatgcac gcacacactg ggccctgggcc agggccccag agctcctgcc tgagctggac 240
cttatgcaaa catttctgtg cctgctgggt aggggcacgt ctgaagggcc ctgctccaag 300
cctgcaggac cganggccac aagccggaca agggggtagc ccctggattn agcacacgaa 360
caccacacga gcacgtgcc a cgcattgcctt cngntngetc attttacaca anacccccctt 420
cccgggtnac gca 433

<210> 4135

<211> 63

<212> DNA

<213> Homo sapiens

<220>

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<220>

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<222> (51)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (54)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (61)

<223> n equals a,t,g, or c

<400> 4135

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ntg 63

<210> 4136

<211> 133

<212> DNA

<213> Homo sapiens

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<220>

<221> misc feature

<222> (70)

<223> n equals a,t,g, or c

3761

<220>
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<222> (91)
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<220>
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<222> (111)
<223> n equals a,t,g, or c

<220>
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<222> (114)
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gcgatctngn tctagccggc gcgtgggtcg ncccgggatt tccggaccgg nacntgctgg 120
cgtaccagct atc 133

<210> 4137
<211> 616
<212> DNA
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3762

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<220>
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<220>
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<220>
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 <222> (584)
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 gaatctgttt acactccaga ctctgatgtg gccgcaccac agatcaacag gaacctcatc 120
 cagaaggctg gttaccttaa tcttagaaac tggcagatga gagccatgtg ctggagacct 180
 acctgcaagg ccagaggcaa gcaaaacagg gctgggtcacc accacctggg agaggcttta 240
 tttcttcacc caaggcgga atctcatgtg tcagcccagg ggagccgtgg ctggagggtt 300
 gatccaggac ctggacaact gctcagtgat ggccgtggat tgcgaagacc ggcgctactg 360
 cttnccagatc accacgccc atggaaaatc gggaataatc ctccaggctg agagcanaaa 420
 ggaaaatgaa gagtggatat gtgcaataaa caacatctcc agacagatct acctgacccg 480
 acaaccctga ngcangtcgc gatcaagttg aatcagaccg ctctgcaagc aagtgacttc 540
 cattacaagt ttgaaaaaa aaaanaaaaa nnggcgggcc gntntaaagg atccaagctt 600
 tacgtacgcg tgcattg 616

<210> 4138
 <211> 447
 <212> DNA
 <213> Homo sapiens

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<220>
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 <222> (240)

3763

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (278)

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<220>

<221> misc feature

<222> (284)

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<220>

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<222> (304)

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<222> (307)

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<222> (310)

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<220>

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<222> (344)

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<220>

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<222> (378)

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<220>

<221> misc feature

<222> (405)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (412)

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<220>

<221> misc feature

<222> (417)

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3764

<220>
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gtggatcttg gtcactccac acaagctaga ttgtcttaat atttgtatgg tgcactttta 120
cttacaaaag ggaagataaa atgttttggg gaataattac caggggtctg gccagggtcaa 180
aattgggttag tccccttctc ccactcttcta attttggttag ntaatacttg gtaaaacatn 240
gggtttttta ataactcact aaaaagggtta ttctattntg gtantttgga taaaatgact 300
tgancanaan gttacagcac acgaaatttt cctttaagca aatngctctc aaatatagct 360
ttttgtcata tgcttatnca tgtttaagat gacatgaaaa ccctnacaac tntaatntta 420
aaataaattt ttctttaata nggtatt 447

<210> 4139
<211> 389
<212> DNA
<213> Homo sapiens

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<220>
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<220>
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<222> (243)
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<220>
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<222> (308)
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<220>
<221> misc feature
<222> (316)
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<220>
<221> misc feature
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3765

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<222> (347)
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<220>
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<222> (373)
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acccttggtt atattgtatt ctctgatata gcattatcag agaaaactgt aggaggaata 120
gtctctgttg acagtgggtca aaggtagatt agagaatagt gggtttccct caagtctgaa 180
nctgacctac taatcagcac atgtgtgagg gaactgccaa ggcagagaaa gaattttcag 240
aanggaggag gatgacagtc tctggagctc aacacggcta agccatctaa attttctctt 300
tactttgngt tacatnaatg atgaattgaa attncaaatt cataaanaca gttatgattc 360
tcaactacct gangttgcgt tcaacatca 389

<210> 4140
<211> 55
<212> DNA
<213> Homo sapiens

<220>
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<220>
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<222> (39)
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<220>
<221> misc feature
<222> (40)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (53)
<223> n equals a,t,g, or c

<400> 4140
gaatacgtaa aaaagtataa gggaagcant gcattcgann tactgcacta ttntc 55

<210> 4141
<211> 251
<212> DNA
<213> Homo sapiens

3766

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<220>
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<222> (115)
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<220>
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<222> (120)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (134)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (172)
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<220>
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<220>
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<222> (219)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (233)
<223> n equals a,t,g, or c

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tgtaatatagg agatacatct catatcttct ttgttttatc catgctgcct gccanacagn 120
cttgtagcatg gtanatactg aataactatc aaatgaataa gtagttatta anaccaagat 180
actttacaga naaaacttta ccantttctc taggactang accccaaatc tngnctcaga 240

3767

gctgctagct t

251

<210> 4142

<211> 96

<212> DNA

<213> Homo sapiens

<220>

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<222> (5)

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<220>

<221> misc feature

<222> (72)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (82)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (90)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (91)

<223> n equals a,t,g, or c

<400> 4142

ggaanaaaag tctttaatga tgaacatatt ttcccccttaa gcttaaaaatg tcttgccttt 60
gaatggtatc tnagcttaag gngaaaatan nattaa 96

<210> 4143

<211> 443

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (291)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (386)

<223> n equals a,t,g, or c

3768

<220>
 <221> misc feature
 <222> (390)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (401)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (412)
 <223> n equals a,t,g, or c

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 ctgagaggga ggggttatag cttcaggagg gaaccagctt ctgataaaca caatctgcta 120
 ggaacttggg aaaggaatca gagagctgcc cttcagcgat tatttaaatt attgttaaag 180
 aatacacaat ttgggggtatt gggatttttc tccttttctc tgagacattc caccatttta 240
 atttttgtaa ctgcttatatt atgtgaaaag gggtattttt acttagctta nctatgtcag 300
 ccaatccgat tgccttaggt gaaagaaacc accgaaatcc ctcagggtccc ttggtcagga 360
 gcctctcaag attttttttg tcagangctn caaatagaaa ntaagaaaag gntttcttca 420
 tttcatggct agagctagat ttt 443

<210> 4144
 <211> 385
 <212> DNA
 <213> Homo sapiens

<220>
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 <223> n equals a,t,g, or c

<220>
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<220>
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 <222> (237)
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<220>
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 <222> (243)
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<220>

3769

<221> misc feature
 <222> (280)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (285)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (317)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (351)
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<220>
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 <222> (368)
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<220>
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 <222> (382)
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<220>
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 <222> (384)
 <223> n equals a,t,g, or c

<400> 4144
 gntctaatta aaggtgcagc acttcaaacg tgattttatac agttgttttt ataggaaaat 60
 ggaaatatat tgtagggata ggtagcagga cactaatagt gagtcccact catgactgta 120
 agtagtgact ttggggaggta tnttaaatac tgatgtcatt aagtaattaa cttgaattac 180
 ttgtattttta ctttttagtta tcaagctgac tgctattata gtaaatatgt gtcttanact 240
 tanagtgaaa tggaaactgc ttagaagctt aactgtgtan gagtnaaagt gcacgggaac 300
 agatgggaac atttaantta tagaaataat tctggtggag ttctagggct ngtgcctatt 360
 tgttttanttt tgttgtgaag antna 385

<210> 4145
 <211> 151
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (2)

3770

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (18)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (31)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (49)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (72)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (103)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (113)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (114)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (133)

<223> n equals a,t,g, or c

<400> 4145

gnaagcatgt ttaatttnaa tagaagagag naaaggatat ggctggtcnt ggaacatcaa 60
gttggtcctt gntccaactg catgaaatgc tggagaaaat tanaacattg cttnagagaa 120
ttggcctctt tanaatcaat tgccccagga a 151

<210> 4146

<211> 436

<212> DNA

<213> Homo sapiens

3771

<220>
<221> misc feature
<222> (432)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (433)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (434)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (435)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (436)
<223> n equals a,t,g, or c

<400> 4146
gtatgatttt ctgtgtatga gatcatggga tctgtgagta ggtagtttta cttttttctt 60
tcacatatga atgactttgt atatatatat atattttttt ttttctaatt gttctggatg 120
gaacttctag tacagtgttg aacacaatga tgaaagtgag catcagtgct gtgttcctga 180
tcttaaagct ttgggtgccca acaattcagg tgggtgattgt tatgggtttt gcataaaagg 240
gttttatcat gtgaagaaaaa ttcgaatctt cagcttattg gtggttttta tcattaaata 300
cgttgattat ctttaagtac tttctgtaac agttgagata aacgtgtttt tcccatcatt 360
ttaattatat agtatacgga aaaggaatgg ctttagtatg ttgaaaaaacc tttgattttc 420
tgaaaaaaa annnnn 436

<210> 4147
<211> 414
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (353)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (362)
<223> n equals a,t,g, or c

3772

<220>
<221> misc feature
<222> (376)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (398)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (403)
<223> n equals a,t,g, or c

<400> 4147
ggtaacatgc ctttcacatg tccaccttct tgccatgttc cagctgctct cccaacctgg 60
aaggccgtct ccccttagcc aagtcctcct caggcttgga gaacttcctc agcgtcacct 120
ccttcattga gccttctctg atcactccat ccctctccta cccctccctc cccaaccct 180
caatgtataa attgcttctt gatgcttagc attcacaatt tttgattgat cgttatttgt 240
gtgtgtgtgt ccgatctcac aagtatattg taaacccttc ggtgggtggg ggccatatcc 300
tagatcgcca gcggccgctc tagaggatcc aagcttacgt acgcgtgcat gcnacgtcat 360
anctcttcta tagtgncacc taaattcaat tcactggncg cgntttacaa cgct 414

<210> 4148
<211> 442
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (295)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (316)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (388)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (390)
<223> n equals a,t,g, or c

<220>
<221> misc feature

3773

<222> (413)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (417)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (421)

<223> n equals a,t,g, or c

<400> 4148

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gaagccatag atgaggaccc atccttgact cctctccctc atcctccatt ttcagtcagt 60
agttagaaac cttcttggtta ttcctgtgaa cccatttact tgatcatctct ctactcttag 120
caccttaact tagactctct ttattttcca cctacctgaa tttcctaaaa gcatcatcca 180
cttttgaagg cttaggactt tgcgtatctt ccctcagggc ttagcttaga aaatcaggac 240
ttctctgacc tgttcctata ccctcaggtg agcttggtgc tgatgtcccc ttctnctct 300
tcatccatac ctctantctt cttctccccg tctcccatgg gctctcacag caccctgtgc 360
tattcttctg acacatataa catttgcn gn aatcgctagc ttttctgggt canaggncag 420
naactatggt gactcatatt at 442
```

<210> 4149

<211> 412

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (336)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (348)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (380)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (398)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (399)

3774

<223> n equals a,t,g, or c

<400> 4149

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gaaaataatg taattgtaat tttgaaatgt ggttttcctg aaatcaagtc atctatagtt 60
gatatgtttt atttcattgg ttaattttta catggagaaa accaaaatga tacttactga 120
actgtgtgta attgttcctt ttattttttt ggtacctatt tgacttacca tggagttaac 180
atcatgaatt tattgcacat tgttcaaaag gaaccaggag gttttttttg tcaacattgt 240
gatgtatatt cctttgaaga tagtaactgt agatggaaaa acttgtgcta taaagctaga 300
tgctttccta aatcagatgt tttgggtcaag tagttngact cagtatangt agggagatat 360
ttaagtataa aatacaacan aaggaagtct aaatatnnng aatctttgtt aa 412

```

<210> 4150

<211> 497

<212> DNA

<213> Homo sapiens

<400> 4150

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ggattgcaact tcctgaccaa tcttattttg gagaaagatg gagacgataa tcctgtctgt 60
cgactgccag acttctaatt caatagataa cgttcttgag aaagacccca gacaaaaaag 120
agacacagat ataacttctg aaagtgacta tggaaacaga aaagaatgca atagaaaagt 180
tcctcgaaga tcaaaaatcc cttatgatgc caaaaccatt caaactatta agcaccacaa 240
taaaaactac aactcttttg taagttgtaa tcgtaaaatg aaaccacctt accttaaaga 300
attatatgta agctcatctt tagcaaaactg tcctatgtta caagaatcag aaaagccaaa 360
gactgaaata attaaagtag accaaagtca ctcagaagac aacacttacc agtcccttgt 420
tgaacagcta gaccaagaga gagagaagag atggagagct gagcaagccg aaaataaact 480
catggattat attgatg 497

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<210> 4151

<211> 392

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (214)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (239)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (241)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (263)

<223> n equals a,t,g, or c

3775

<220>
<221> misc feature
<222> (317)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (356)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (363)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (376)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (388)
<223> n equals a,t,g, or c

<400> 4151
gaaagtatat aaatataaaa tgtataaatg atggatagat ttttgtattg atttgcaaaa 60
tgcagattat atttgatagg ctatagtatg tagatattcc ttttaggaat attacagctg 120
taaattatat gagacttgcc agtcaaatgc tatttggttt aaaaaaatta ttgcaatctc 180
aagttaatgg aatattttta aatcccacat tcanagttta aaacactggg tttcaatgng 240
nctattagtg ttgtcacttg ttnatagata aatatataaa taacctgttt ggatcctggg 300
cctttttaac tgatccnttg gcaattctga gcatttattt gatgacttaa tatttntcac 360
tancctttgga gaacanatga accatttntt ca 392

<210> 4152
<211> 71
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (61)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (62)
<223> n equals a,t,g, or c

<220>

3776

<221> misc feature
<222> (64)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (67)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (69)
<223> n equals a,t,g, or c

<400> 4152
gtgcttttat aaagttgaac aaattgaatt tagacattca ggcaaagcta ctggggggttg 60
nntnctncna c 71

<210> 4153
<211> 509
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (401)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (448)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (482)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (486)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (494)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (496)

3777

<223> n equals a,t,g, or c

<400> 4153

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gccctgacat tacaggaaat ctacttagca acctcgtaag tgagaacaag tctaaaagca 60
gataaaatta attatcctag atcctagatg caacttttaa cttggcagtt attcccacag 120
cattttctgtt tgggtattctt acaattgcct tacactcaga attcttacta agggggccatt 180
accatagtag atattacttg gcaaataata aatacaggga ttgagcaagc tgatgtaatt 240
gactgtcttg atttaaaatg tgtattaaac ttagatctac agaatggtag ggaggcagaa 300
acaagcaaat gacttaattt gtattgatgc caaattgggtg cttgcttgag cgcttcaaaa 360
tagcagagtt gttaacacta gctacaactc taaggaccat nccataagta gggcacatag 420
ggaatttgaa ttcataccag aatttttangg attttatttt accttcta atataattaa 480
gntctnattg tggngntaac cctttttttt 509
```

<210> 4154

<211> 453

<212> DNA

<213> Homo sapiens

<400> 4154

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ggcgtttagt gtgttcta at ttaattgtt ttatatcctg aaaccaatgg tgaaaagtaa 60
tttcattgag ggtacctttt caatgcctga gtagcataca gaatcatgat tatgagactt 120
tcttttatct ttctttataa aaatatgtgt ttttttttgt tgaaagtgtt ggtctcttta 180
aattcagatt ttgtcttagg acagtaaaac ccagggtgac tgactcagga aacagttgtc 240
tgctagtcac tcataaatgt acggtcatat gttcactctt cttaaatatc caccttttat 300
aacacaaaatg taaaatagta tcagtctagc caatgatgaa ctctggaatc cacttagtct 360
tcagtaagta tgtgtgtgcc tctaaacttt gccctgaagc caggggatct tctccta atg 420
tatgtgacat aaaaatccat tttccatgta aaa 453
```

<210> 4155

<211> 169

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (17)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (20)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (47)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (56)

3778

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (87)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (101)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (102)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (104)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (123)

<223> n equals a,t,g, or c

<400> 4155

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ggccttaaaaa aaaatgnttn ttaaagactt tggaaccaag gttggangga atttantgga 60
aaaaactttg gaaaaaaaaagg aagggtncaa cttcaataat nnanatagaa cagaaagttt 120
aancttggct ggtgggtaaa gaagaagaat ggccagttat tgaaatatg 169
```

<210> 4156

<211> 172

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (25)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (37)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (53)

<223> n equals a,t,g, or c

3779

<220>
<221> misc feature
<222> (60)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (68)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (130)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (141)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (142)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (167)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (172)
<223> n equals a,t,g, or c

<400> 4156
cacgaaaaac atctactact atctntcaag ccagtanatg ccaaatttct ttntgatcan 60
tagtgatnta caactcaagt gccatgttgc tctacaggtg cactgctata acgacagcat 120
ttccagaatn gcatgttctt nnattgtttg tgtcgcactt atatganatg tn 172

<210> 4157
<211> 485
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (7)
<223> n equals a,t,g, or c

3780

<220>
 <221> misc feature
 <222> (408)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (439)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (450)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (472)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (484)
 <223> n equals a,t,g, or c

<400> 4157
 tagactntga aataagtga atgactgggc actgatcatg atgtatatct gttacataca 60
 taatgatttg tagactgaag agctagcagt atagtttgta ctccatgccca ttattcacag 120
 atactatatt gaagtttgaa ctgtgttgct ggcagactgg cattatttag ctaacctgtg 180
 gtaactgaaa ttcttgcctg tcagaattct gcaaagtaag gactacctgt atctatata 240
 ttttttctct aagcactgct ttagttttat ctccacaaatt ttgacatttt gtgttctcat 300
 attaattaaa ttcaagttac tttctaattc ctcttttgac tttctcattg acacatagg 360
 tattttataa gtgtgtttta ttttctaata tttgggggga cttctganat gtctttttat 420
 tattttattc taattaatnc cattatggtn ggtaaatata ctctgaatga tntccattct 480
 tatna 485

<210> 4158
 <211> 324
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (304)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (306)
 <223> n equals a,t,g, or c

3781

<220>
<221> misc feature
<222> (314)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (315)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (318)
<223> n equals a,t,g, or c

<400> 4158
gcctcagtgg acgacatgct caaggtgagc tcccgggtgt caagcggagg ccttttcctc 60
caggacgacc ctgtaggtac caggaggggt ggggcagggt tgagcccttc gtggtctggt 120
tgccacacta gctgcccttg ggagggggcca gtgtcccatg tggactaagg aggccaggcc 180
tggccagact ccacatagcc cagagctgac cgcttgcccc aaatcaaagc atcttggcca 240
ggtcagactc cttgaccagg actgccattg tggttaaaaa ttagccttgt gtggtggtgt 300
gttncntgtg gtcnnagntt actt 324

<210> 4159
<211> 134
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (16)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (39)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (81)

3782

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (114)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (118)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (126)

<223> n equals a,t,g, or c

<400> 4159

cnnttaccaa caggtnagcg cacgctgaat ggcgaatgng acgcgccctg aagacggagc 60

attaaaacac ggcaggaatg naggttggtt acaacacagg gtgacccgct acantacncc 120

atacngngcta acag 134

<210> 4160

<211> 84

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (56)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (62)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (65)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (70)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (84)

<223> n equals a,t,g, or c

3783

<400> 4160
gaaaaggatc aaaggatatt gaattcccg g tccgacagaa agaggcttat atcaanagag 60
tngtngatcn ggcaaaagat cttn 84

<210> 4161
<211> 310
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (7)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (10)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (54)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (64)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (66)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (159)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (161)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (165)
<223> n equals a,t,g, or c

<220>

3784

<221> misc feature
<222> (199)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (217)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (240)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (279)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (298)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (304)
<223> n equals a,t,g, or c

<400> 4161
acgcctnccn gtaccgggtcc ggaattcccg ggctcgacca cgcgtccgcc cacncgtccg 60
cccnccnccgtc cgggacatga atagtcgcca ggcttggcgg ctctttctct cccaaggcag 120
aggagatcgt tgggtttcaa ggccccgcgg gcatttctng ncggncctgc ggagagagtt 180
cttcactacc acaaccaant gagggatatg ataggcngtc agtggatata acttctttan 240
aacaaggaa attaaacttt gataccatg cattgggttna ggacttggaa actcatgnga 300
ttnacaaaa 310

<210> 4162
<211> 126
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (11)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (13)
<223> n equals a,t,g, or c

3785

<220>
<221> misc feature
<222> (40)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (42)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (89)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (123)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (125)
<223> n equals a,t,g, or c

<400> 4162
tcctacggca ngntctaata cgactcacta taggcaaagn tncaacgcct gcagttaccg 60
gcacgaaatt cccgggtcga cccacgcgnc cgctcaataa atattctcat tgtcaatcac 120
ccnana 126

<210> 4163
<211> 145
<212> DNA
<213> Homo sapiens

<220>
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<223> n equals a,t,g, or c

<220>
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<222> (10)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (66)
<223> n equals a,t,g, or c

3786

<220>
<221> misc feature
<222> (69)
<223> n equals a,t,g, or c

<220>
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<222> (87)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (131)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (134)
<223> n equals a,t,g, or c

<400> 4163
acgcctnccn gtaccggtcc ggaattcccg ggtcgaccca cgcgtccggc ccgcagaagc 60
gagatnacna agggaaacgtc atcgttngga aagcgtcggc aataagacgc acactgttgt 120
gccgtcgctg nggntctaag gccta 145

<210> 4164
<211> 230
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (13)
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<220>
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<222> (122)
<223> n equals a,t,g, or c

<220>
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<222> (123)
<223> n equals a,t,g, or c

<220>
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<220>

3787

<221> misc feature
<222> (187)
<223> n equals a,t,g, or c

<220>
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<220>
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<222> (210)
<223> n equals a,t,g, or c

<220>
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<222> (220)
<223> n equals a,t,g, or c

<400> 4164
ggaattccat ttntgggtcat attatggcag cttacaagcc tggcacagtc cagttatgca 60
gtcagccttg gtgcctggct gccagccaca ttctataccc tatttggggg tgaatgggtgc 120
anngtttctc ctgcangtat gttccctga ctcttctttg cccccagaa tatgcttttag 180
ggagtncag acnacagaac actgccccan ggcgtgtcn atcactctat 230

<210> 4165
<211> 135
<212> DNA
<213> Homo sapiens

<220>
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<223> n equals a,t,g, or c

<220>
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<222> (24)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (33)
<223> n equals a,t,g, or c

<220>
<221> misc feature
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<220>

3788

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<221> misc feature
<222> (121)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (132)
<223> n equals a,t,g, or c

<400> 4165
tatgaccatg attacggcaa gntntaatac gantcactat agggaaagnt ggtacagcgt 60
gnagggtaccg gtccggaatt gccgggaacg acccaacgcgt acgatttana tgctgctggg 120
natgttaatg anaga 135

<210> 4166
<211> 130
<212> DNA
<213> Homo sapiens

<220>
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<222> (16)
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<220>
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<222> (19)
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<220>
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<222> (59)
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<220>
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3789

<222> (69)
<223> n equals a,t,g, or c

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<222> (101)
<223> n equals a,t,g, or c

<220>
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<222> (117)
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<400> 4166
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ctgtgcagnt accagcacac atgcaaagcg gaaaggcgac ntttctaggt gcccgangca 120
atacaagcat 130

<210> 4167
<211> 119
<212> DNA
<213> Homo sapiens

<220>
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<222> (2)
<223> n equals a,t,g, or c

<220>
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<222> (15)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (27)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (69)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (91)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (107)

3790

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (115)

<223> n equals a,t,g, or c

<400> 4167

tntaatacga ctcantatag ggaaagntgg tacgcctgca ggtaccggtc cggaatatcc 60
cgggtcganc cacgcgtccg tgggattttt ntgtgttact ttggcngta ttttnaaac 119

<210> 4168

<211> 171

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (27)

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<220>

<221> misc feature

<222> (50)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (52)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (61)

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<220>

<221> misc feature

<222> (83)

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<220>

<221> misc feature

<222> (139)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (164)

<223> n equals a,t,g, or c

3791

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<222> (166)
<223> n equals a,t,g, or c

<220>
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<222> (168)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (171)
<223> n equals a,t,g, or c

<400> 4168
cataacaatt ttacacagga aaacagntat gaccatgatt actggcaagn tntaatacga 60
ntcactatag ggaaaggtgg tangcctgca ggtaccggtc cggaattccg agggacgacc 120
cacgcgtccg ctttgaatna gagtcgaagg ttaaaatgag agangnanga n 171

<210> 4169
<211> 169
<212> DNA
<213> Homo sapiens

<220>
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<222> (23)
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<220>
<221> misc feature
<222> (25)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (34)
<223> n equals a,t,g, or c

<220>
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<222> (62)
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<220>
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<222> (68)
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<220>

3792

<221> misc feature
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<223> n equals a,t,g, or c

<220>
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<222> (131)
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<220>
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<222> (137)
<223> n equals a,t,g, or c

<220>
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<222> (143)
<223> n equals a,t,g, or c

<220>
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<222> (169)
<223> n equals a,t,g, or c

<400> 4169
tatgaccatg attactggca agntntaata cgantcacta tagggaaagg tgagacgcct 60
gnaggtancg gaccggaatt cccggatacg acaccacgcg tccgagagag tgtgcttgct 120
cagagacntg nagccantca ganacaggat taaatggtgc tgtgagttt 169

<210> 4170
<211> 169
<212> DNA
<213> Homo sapiens

<220>
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<222> (18)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (28)
<223> n equals a,t,g, or c

<220>
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<222> (30)
<223> n equals a,t,g, or c

<220>
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3793

<222> (43)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (55)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (138)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (144)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (147)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (156)
<223> n equals a,t,g, or c

<220>
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<222> (164)
<223> n equals a,t,g, or c

<400> 4170
aacaggtatg accatganta cggcaagntn taatacgact cantataggg aaagntggga 60
cgcgtgcagg aaccggtccg gaattccagg gtcgacccac gcgaccgaaa gtgtatgtag 120
tatataaaga atttggtnta tgantgnaga atcaanataa taanatgta 169

<210> 4171
<211> 160
<212> DNA
<213> Homo sapiens

<220>
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<222> (25)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (52)

3794

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (53)

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<220>

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<222> (76)

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<220>

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<222> (91)

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<222> (112)

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<220>

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<220>

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<222> (139)

<223> n equals a,t,g, or c

<400> 4171

gaaacccaag gaaagccgtt cggtnaaggt ccgggtccgga attccccgggt cnncccacgc 60
gtccgggtgta tcctgnttta aaaaaatgta nttttttttg aaataaacct tnatattctg 120
tatatttntct aaggggggng agaacctttt gaatgtgtca 160

<210> 4172

<211> 258

<212> DNA

<213> Homo sapiens

<220>

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<222> (16)

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<220>

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<222> (19)

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3795

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<222> (23)
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<220>
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<220>
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<220>
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<222> (108)
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<222> (122)
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<222> (145)
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<220>
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<222> (146)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (175)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (180)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (236)
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3796

<220>
<221> misc feature
<222> (240)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (245)
<223> n equals a,t,g, or c

<400> 4172
acaaccttac acaggnagnc agntatgacc atgattacgn caagctctaa tacgactcac 60
tatagggaaa gntggtaacg ctgcaggtag cgggccggaa ttcccggntc gacccacgcg 120
tncgttctat ttcttttgac aaatnngaac atttctaaaa ctaaaagagt ctttntattn 180
ttaaacaaca agtagaatga tttaaataagg attttaatga atttttggca agtggntgtn 240
ttaantttta aattgaga 258

<210> 4173
<211> 150
<212> DNA
<213> Homo sapiens

<220>
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<222> (17)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (34)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (44)
<223> n equals a,t,g, or c

<220>
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<222> (45)
<223> n equals a,t,g, or c

<220>
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<222> (79)
<223> n equals a,t,g, or c

<220>
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<222> (104)
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3797

<220>
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<222> (129)
<223> n equals a,t,g, or c

<220>
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<222> (147)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (150)
<223> n equals a,t,g, or c

<400> 4173
gctctaatac gactcantat agttgattgc tggnacgcct gcanntaccg ggccggaatt 60
cccggatcga cccacgcgnc cgaattgctg gcagccattt atgntaaaaa tgcatatatg 120
cattctgtna ggaagacttt atactgntan 150

<210> 4174
<211> 201
<212> DNA
<213> Homo sapiens

<220>
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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (13)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (37)
<223> n equals a,t,g, or c

<220>
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<222> (57)
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3798

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<222> (142)
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<220>
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<222> (164)
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<220>
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<222> (165)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (172)
<223> n equals a,t,g, or c

<220>
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<222> (190)
<223> n equals a,t,g, or c

<400> 4174
nacgcctgna ggnaccgggc cggaattccc gttcgancca cgcgtccgcc cacgcgnccg 60
catatttata gcttatcact taattttgtg tgccagggaa ggcattggcca gaattaatat 120
gccacagtac cctcatcatt gnttttatag ccattcatgc cccnncttcc tntggcacat 180
tttctaagan attatttcat a 201

<210> 4175
<211> 131
<212> DNA
<213> Homo sapiens

<220>
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<222> (8)
<223> n equals a,t,g, or c

<220>
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<222> (9)
<223> n equals a,t,g, or c

<220>
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<222> (19)
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3799

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<222> (45)
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<222> (56)
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<220>
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<222> (111)
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<220>
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<222> (120)
<223> n equals a,t,g, or c

<220>
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<222> (123)
<223> n equals a,t,g, or c

<400> 4175
tgattacnnc aagctctant acgactcaat atagtgttg ctggnacgcc tgcagntacc 60
gggtccggaat tcccgggtcg acccacgcgt ccgcccgtcc ccgtctctcg natttgtggn 120
ctncttggt c 131

<210> 4176
<211> 181
<212> DNA
<213> Homo sapiens

<220>
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<220>
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<222> (51)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (59)
<223> n equals a,t,g, or c

<220>

3800

<221> misc feature
<222> (60)
<223> n equals a,t,g, or c

<220>
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<222> (72)
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<220>
<221> misc feature
<222> (119)
<223> n equals a,t,g, or c

<220>
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<220>
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<222> (160)
<223> n equals a,t,g, or c

<220>
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<222> (166)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (178)
<223> n equals a,t,g, or c

<400> 4176
aaacagcnct gaccatgatt acgccaagct ctaatacgac tcactatagg nattgcttnn 60
acgcctgcag gnaccggacc ggaattcccg aatcgaccca cgcgtccgct aacaggecnc 120
atacttaaga ttccatctac ttttaagttna aaggattttt agaatnacct taagtgcnaa 180
a 181

<210> 4177
<211> 296
<212> DNA
<213> Homo sapiens

<220>
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<220>

3801

<221> misc feature
<222> (7)
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<220>
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<222> (11)
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<220>
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<222> (85)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (118)
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<220>
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<222> (136)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (141)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (149)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (163)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (221)
<223> n equals a,t,g, or c

<220>
<221> misc feature

3802

<222> (239)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (247)
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<220>
<221> misc feature
<222> (257)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (270)
<223> n equals a,t,g, or c

<400> 4177
naaccgncaa natgcgacaa atccccgaaa ntttgggggtt aagggcacgt accgcgtccg 60
gaattccccgg gtcgacccac gcgtncgcgg acgcgtgggg cctgttccg ttacccgngc 120
tacctcagcg gctacnagac nacactggnc ctgggcccgc tgnatgagtc accctgtgtc 180
cacgccacgc ccccgctgag cctccccccag aacctcacag ntgaaggggac aggcaaccnt 240
ggagccngcg tgtcagncat ccgggaactn ttcaacttct ccagctgcca gggcca 296

<210> 4178
<211> 166
<212> DNA
<213> Homo sapiens

<220>
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<222> (20)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (30)
<223> n equals a,t,g, or c

<220>
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<222> (42)
<223> n equals a,t,g, or c

<220>
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<222> (77)
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<220>

3803

<221> misc feature
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<220>
<221> misc feature
<222> (137)
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<220>
<221> misc feature
<222> (139)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (154)
<223> n equals a,t,g, or c

<400> 4178
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aagggtggtt ttcagtnatgc tgagatcttg nttttctttt tgtgttcaca gatgaagccc 120
ggggcaagaa ctgtgngnnc ttggtacatt gctnggctgg cattag 166

<210> 4179
<211> 297
<212> DNA
<213> Homo sapiens

<220>
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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (16)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (28)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (51)
<223> n equals a,t,g, or c

<220>
<221> misc feature

3804

<222> (54)
<223> n equals a,t,g, or c

<220>
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<222> (111)
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<222> (164)
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<220>
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<222> (181)
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<220>
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<222> (196)
<223> n equals a,t,g, or c

<220>
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<222> (238)
<223> n equals a,t,g, or c

<220>
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<222> (253)
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<220>
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<222> (267)

3805

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<220>

<221> misc feature

<222> (290)

<223> n equals a,t,g, or c

<400> 4179

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tncctcttcc acgagnaccg gaagatgngc acatgcgagc ctgggggctgc ncgntgaagg 60
gactacttgc ttcgaaccgc tagacagtga acaaaggaac ttgatagctg ncctggacca 120
ggacgtcttg gcacaacctt atccggaatg caactacanc tacnccatag aacatcttac 180
nccccatcaa ntgagntgag ggggcgcaac ccgggttggc cccattggca acccangncc 240
tttagtagtc ccncccccca aaaaaanccc tttaggcatt tccttgggcn aaaatcg 297
```

<210> 4180

<211> 128

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (62)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (79)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (80)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (113)

<223> n equals a,t,g, or c

<220>

<221> misc feature

3806

<222> (114)

<223> n equals a,t,g, or c

<400> 4180

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ttngnggact ggggtgtctct ggtcgaactc tgtccaaaaa cgtgcatggg atataacttg 60
anaagcttgc cacaattggn gtataaagca tgtggccata cccaatttca ganngcttac 120
caatagag                                     128

```

<210> 4181

<211> 403

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (311)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (362)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (386)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (395)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (397)

<223> n equals a,t,g, or c

<400> 4181

```

gagaacaata ctgtaagggt aagaaggata gatttctttt tctattgact gctgaggacc 60
gaagctctag aatgtctaac agttcagcca ggatcacata ggaatattcc gattcagagg 120
cagaaatctg tggctctgcac tatgctttca ggtcagatta gaggtcatt ccttttgaca 180
ccatgccatt gtgagcttcc aaaacaagat ccgctctcag gcaagcctct gaatgggtta 240
caaagttcaa aatggagcca agcacaagaa gagttgccaa gagtgatata gaacgctctg 300
tggaagctg ntgtggaaaa tcagcacacc cagcgctgt agtaatttaa ccaatacagc 360
anaaaaacgt agcttgctgt tttttnaaaa aacntncac aga 403

```

<210> 4182

<211> 174

<212> DNA

<213> Homo sapiens

3807

<220>
<221> misc feature
<222> (22)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (23)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (31)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (49)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (67)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (112)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (118)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (148)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (155)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (163)
<223> n equals a,t,g, or c

3808

<400> 4182

caggtagcgcg ggccggaatt cnnngggtcga nccacgcgtt cggcggttcna tccgctggaa 60
ggagagnaat caggaaaccc attgatagga ttatcgccag gcatgacctc tntcaatngc 120
cactttctat tcttttgaag tagaactntg gagcnacagg gcnacagacg gcgg 174

<210> 4183

<211> 581

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (523)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (527)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (539)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (560)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (561)

<223> n equals a,t,g, or c

<400> 4183

nggttntcac attcaaaggg aatgagattt gaaaatgatt tctttgagtc ctctgctgag 60
gtctttccaa ggcactacaa ttagggcttt gcacccaaat acccttgect cattttggtc 120
attttgtcct ggaacagagg ttcagctggg agacccctca cacacagggtg aaggcgtggc 180
tgtagaacct cagacccctt ggtctcctca ggaatgaagg tcattgccat cctcacctc 240
ctcctcttct gctgtaagta gagagcttgg tgggtcagca ccaagcttct gtcttcctgt 300

3809

ttatgtcagt gggagggggg actctccagg tggcaccagg tgaggggaagt cacaagtcct 360
gcagaaaaga atcaggaaag gaacgggctc ccaccaacgt cctcttgctt ctgtttctgc 420
tataaaatgg gctgatccca gtgttgggat cttataaagt gtctaggaaa tcagagggtg 480
ccaaccattt gctagaaagg gagtttgact actattttac ccncctnacc ctcaagagnc 540
ttttttcctt tggatgctan naggctttat ttaaggccat t 581

<210> 4184

<211> 76

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (50)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (52)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (60)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (65)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (72)

<223> n equals a,t,g, or c

<400> 4184

gcggaacgct gggattgaat aggtcagaag tagaatcttt tcaatagggn anaaagttgn 60
ggtgnagagg antatg 76

<210> 4185

<211> 66

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (29)

<223> n equals a,t,g, or c

<220>

3810

<221> misc feature
<222> (50)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (64)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (65)
<223> n equals a,t,g, or c

<400> 4185
aacagcttaa gtccatgggt aatccgttna tagaaattgt gtttgctaan aaggtgccat 60
ttannc 66

<210> 4186
<211> 156
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (30)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (49)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (119)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (122)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (136)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (143)

3811

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (146)

<223> n equals a,t,g, or c

<400> 4186

```
gaaaactgtc ttcatatatt taaaagtgtg atcattttct taaaagttnt aaaaaagctt 60
tgtatttctt atttaaaaaa tctttgcccc atttggtgaa gatattctct tatttgtnt 120
cntaaaaaatt accttnatag ctntgntttt aatatt 156
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<210> 4187

<211> 172

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (133)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (137)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (152)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (153)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (169)

<223> n equals a,t,g, or c

<400> 4187

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gcttttgaat tttgttcaac atgatcaata ttacatgtta ggatcattca gatgtagtga 60
atgagagttt atagtggttt acttatttaa atatttgact tttaagttcc tcacaatata 120
tttcattctt ttntctnctg ttgcatggat anngcatata catacctana aa 172
```

<210> 4188

<211> 138

<212> DNA

<213> Homo sapiens

3812

<220>
<221> misc feature
<222> (7)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (18)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (32)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (38)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (77)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (122)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (128)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (135)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (137)
<223> n equals a,t,g, or c

<400> 4188
cgaccgncgg ctgcggcntg gacggggcat gncatgtngc cattgactgc ggcgcggtcg 60
gccatgcagg actactntgt aagccccata ggagatcctt ggcgcacaaat gctgcgggttc 120
tncctcngng gcttnang 138

3813

<210> 4189
<211> 67
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (22)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (56)
<223> n equals a,t,g, or c

<400> 4189
gactagttct agatcgcgag cngccgccct ttttttccct ttttacattt ttcttnttgt 60
ttatgat 67

<210> 4190
<211> 453
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (12)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (41)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (52)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (53)
<223> n equals a,t,g, or c

<220>
<221> misc feature

3814

<222> (60)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (70)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (96)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (100)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (102)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (110)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (119)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (124)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (129)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (139)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (163)

3815

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (231)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (357)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (364)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (430)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (450)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (453)

<223> n equals a,t,g, or c

<400> 4190

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tncttattga angatgagat ttacattttc aaagatgatt naaataattt tnnttaatgn 60
ctgcaaaccn ttggcttgct taaggaatga acaganggtt tnaagggtc attaagaant 120
aaantgaant gacatttana aatatggaaa tccattaaga gtntttaagg agcttgggga 180
gaggagcttt aataagaaaa gccatctgca ttgacagcca agaaccattg nttctttgtt 240
gaaaactgac catttcaacc tgcacatgca gttgaggata agtttactga tcttgccaca 300
gatgagtttc aaacagaagg aataaggaaa acagtatcaa ttgtttccct ggaactncat 360
tcanatttca aggcgagtgat aatcagaaaag gatgatttct acttgctggg ttgatttaat 420
ccctttccan atgattgaca ttttctgctn ggn 453

```

<210> 4191

<211> 104

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

3816

<220>
<221> misc feature
<222> (54)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (74)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (95)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (103)
<223> n equals a,t,g, or c

<400> 4191
gccacnctg cgcacacgc gtccgcttta gacgtaatac gtctaaaggg gatnggacca 60
tgatctttac ctgntgactc tggaattgaa taaanaaaaa ttnc 104

<210> 4192
<211> 393
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (7)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (40)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (48)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (51)
<223> n equals a,t,g, or c

<220>

3817

<221> misc feature
<222> (59)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (81)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (120)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (156)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (172)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (195)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (216)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (221)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (225)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (230)
<223> n equals a,t,g, or c

<220>
<221> misc feature

3818

<222> (253)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (262)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (264)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (267)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (272)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (283)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (286)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (292)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (310)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (313)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (359)

3819

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (386)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (391)

<223> n equals a,t,g, or c

<400> 4192

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tttttcnttc agccctgaca acccatccac acacggggcan gcctgttnat ntacactgnt 60
gcccaactact ctctccagct ncacatgctg tacctggatc attctgaagc aaattccgan 120
cattacatca ttgtgtccat aaatatttct aacatnctta aatatacaat cngaattcaa 180
gcactctcca ttgtncacaa aatgtttggc tgatgntgta nttgnattgn ttgtattagg 240
attaaagcaa ggnccatata tngnatntat tngaaatgct tgnaantctc tntccatcta 300
cagagtttan canatttgaa cgttgctggg tgaaatcccc aggtgtcatt tgacatggnt 360
ctctgaactt atctttccta taaaanggta nta 393
```

<210> 4193

<211> 267

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (135)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (147)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (149)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (218)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (222)

<223> n equals a,t,g, or c

3820

<220>
<221> misc feature
<222> (243)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (249)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (259)
<223> n equals a,t,g, or c

<400> 4193
ggtaacgtta ctgtattatt ctacgtaaat gtgggtactt ggatgtttat catactgttt 60
ctctgtgttt acatactaata ttgtgtaaga aatgcatttt agtctgtgta cctcaacctg 120
ctgtttgttt cctanagggtg ttagtantnt ttaaatacaa gtaagactta agaggatatt 180
tgatgttatt tacctggata ttttattccc cttttatnta tncacaggaa attgacattc 240
tangaccant aaaatgaana caaaatt 267

<210> 4194
<211> 301
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (98)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (139)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (192)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (201)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (218)
<223> n equals a,t,g, or c

3821

<220>
<221> misc feature
<222> (228)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (268)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (275)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (282)
<223> n equals a,t,g, or c

<400> 4194
gcgcctgtgt gtggaacctg caatcacact gggaagttga gttgggagga gattcctgat 60
tcttacacgc acttcttcat atgtggttcc ctctggnga tcaccaggag gtccccaaaa 120
gtccctgatt gcagggtang tttgcagctc tgtttcagtc cattcttttg gggtagctag 180
gaggtgtcat tnactctgca ncatgatggc aggagcanaa gccacatntc ctccccata 240
aatacctctg tctttcctta cgctaataaa aaaanaaaaa anaaaaaaaaa aagggcggcc 300
g 301

<210> 4195
<211> 110
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (7)
<223> n equals a,t,g, or c

<220>
<221> misc feature

3822

<222> (42)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (93)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (101)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (105)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (109)
<223> n equals a,t,g, or c

<400> 4195
ngnacgnctg caggtaccgg tccggaattc ccgggtcgac cnatgcgtcc gggtatatca 60
gtaataaaaa aaataacaga acccttaaag ggnatccaca ntgantggnt 110

<210> 4196
<211> 461
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (409)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (428)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (433)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (440)
<223> n equals a,t,g, or c

3823

<220>

<221> misc feature

<222> (455)

<223> n equals a,t,g, or c

<400> 4196

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gccacgtgga gagaagttgc cctccaggcc gacaggaggc catgcccacc gcccctggac 60
aggettcgtc tcagaaggct ctatctgctg ggctggcggc catccccgtg ttgggtggac 120
cccgagcacg gttgcctgag gtccgatggc ccgagagctg ggactcagtt cttggcctgc 180
tagcgggtga acaggccgca catctcactt cagttgtggc ctcattcagc agatgactct 240
ggaaccatcc tctgttaccg gcagatcctg tcccatgggc tctggcccca agatgttggg 300
gggccccacg gagagttgac ttggtagagt tcctttctgg gaagaaagta ggagtggctg 360
accaggccct gtcctacacc cggatagagg acacggaccc ttgtgtggna ttttggcatt 420
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<210> 4197

<211> 376

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3824

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<220>

3825

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<220>
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tcanaccaag ganacattta accatctctc cccctttcct ntgggggtgac tgcanttgan 120
gaaagnatgc catggggtaa ggggacattg gtggncacat tttgggtgaca gacccttgct 180
gttgtctctg tgncccatt ntctggactn tggcctgncc tcctagtgtc tgtgactccc 240
tctcttttnan cccaccccc atggtatgta tattcnttac aagtcctcca caagagcagn 300
tgtctangat gcgngagggg gaggctcctt nccttaggga gcgtggatag aaaggagcat 360
acttggtgnt gtattt 376

<210> 4198
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<220>
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ganct 65

3826

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<212> DNA
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<220>
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<222> (107)
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<220>
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<222> (277)
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3827

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taagacatct ctggatgaat gttaaagaaa ctgatggnta ttgcctntga tgaggggaat 120
tagatggctt gaggacgaag tggatggaag actttatatt atctttaccc ctttgtgtcc 180
ttttaatttt aaactacgtg atgtaacttg ctcaaaaagt agagataaaa tttaaaca 240
cccgaaaaat aaactctaga tcaattctat tgcttgncaa aggctttaat taancttgag 300
ggcaattctg ccttggntaa aggtattaaa gctatgcang caccaagctg aaant 355

<210> 4200

<211> 56

<212> DNA

<213> Homo sapiens

<220>

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<400> 4200

gctantaata aacggttgaa gtattgcaat aaaacttgag ttttaaaaaa aaaaaa 56

<210> 4201

<211> 178

<212> DNA

<213> Homo sapiens

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<220>

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<222> (35)

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<220>

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<222> (65)

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3828

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<220>
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acaanatgcc cagtggcacc atatggttta ttttggtagg caggatcttt gcanatgaaa 120
aaaaaatcta catgtacttg attttaattg anttacattg anaatanget cctntgga 178

<210> 4202
<211> 50
<212> DNA
<213> Homo sapiens

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<220>
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<222> (15)
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<220>
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<223> n equals a,t,g, or c

<220>
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<400> 4202
ggtccnacgg gtccnggtac cagcacgtgc aggagtgggtg ngagctgagn 50

<210> 4203
<211> 616
<212> DNA

3829

<213> Homo sapiens

<220>

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<220>

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<220>

<221> misc feature

<222> (565)

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<222> (598)

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<220>

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<400> 4203

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aaggcctaca agattaaata atcaagtcAT tattgtgaat ttggatctaa atgacctggc 120
agaaacCATg gagatgatCT tggatttaaa gaggaaaaaac tcaaagcaat gtattctgat 180
caagaaatgg caggaaatgg cagctacCTg atatggaaca atcaacaact gaaggTTtat 240
tttgaatgag aggtgttgtc caactgCGag acggagtgAT tgaagctgag aataaatgga 300
aacacaatca atagtCACTc cagtGAGgta ggaaagaaaag ccattCCgaa gtggcagaga 360
agctgCTttt tCCTcCTgca tgctgcCTgc tagtGTggAT cttggcataa cagacACTac 420
ttggcaaaaag atCCATcCTt cCTtttCCTa tactttgCTc agCGgcCTgg aagattganc 480
tnaaaagcaa aatCACTtgG atttCCTtgC catttggCTt tcaaATgtgc tcagccaATg 540
acaggCTgga aagaaattga cagcNTggga aaaagaggaa naatttGTgt ccaagaancc 600
ttccnCTtcc catntt                                     616

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<210> 4204

3830

<211> 94
<212> DNA
<213> Homo sapiens

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<220>
<221> misc feature
<222> (28)
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<221> misc feature
<222> (77)
<223> n equals a,t,g, or c

<220>
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<222> (86)
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<400> 4204
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tcttcggaag ctncaanatg atggangtgg ctga 94

<210> 4205
<211> 370
<212> DNA
<213> Homo sapiens

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<220>
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<220>
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3831

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<220>

<221> misc feature

<222> (320)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (347)

<223> n equals a,t,g, or c

<400> 4205

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atgtttatat gtggagaaat ggtacaggat aggaactgtg tttgaagacc tgatgtatat 120
ttacaaatag gtagatctca ttagcttata atatttggct ttgaagttga aggctagttt 180
tattcattgc actgtatttt gctatcagat gtgaatttat ttagaaataa agaattctgc 240
tgtgaataat tgaggaaata cttaattcct tgacttatgt aaagaacacc ttgttcaatt 300
ggattggggn aantngttan ggtgctaagg ctctgagtga aactctnagt actgtatctg 360
tgtcaatggt                                     370
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<210> 4206

<211> 351

<212> DNA

<213> Homo sapiens

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<220>

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<222> (27)

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<222> (65)

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<220>

<221> misc feature

<222> (78)

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3832

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<220>
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<220>
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<220>
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<222> (164)
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<220>
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<220>
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<220>

3833

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<222> (231)
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<220>
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3834

<222> (338)

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<220>

<221> misc feature

<222> (351)

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<400> 4206

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acgcntccgg accaattncg ggacagtcaa ggattctcaa tntgnatnnt ccaggcaaga 120
gaactttgta cnccttctct gtgtggatag actncncagc gttnttccta tggaaatgcc 180
cacagggctt gacgcgtgga gactgatntg ntncatncgn tagcgcgagg nancagngtc 240
gcctcgcccn tcccactgcg ggctcacggg gagctggcgt ctgncagtgc cttggcacgc 300
ctggnataaa ggttggtcgg angcctgtca ctggcttntg gagctgaagg n 351
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<210> 4207

<211> 391

<212> DNA

<213> Homo sapiens

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<220>

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<222> (154)

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<220>

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<222> (159)

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<220>

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3835

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<220>
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<220>
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agggctctga gagctgtgct ccaggccagg ggttacacct gccctccgng gtccctccct 120
gggctccagg ggctctctggg gcggttccgg gaanaagcna caccnanaag gtgacagctg 180
agccctgcc acaccnagc ctctgacttg ctgtgttgtc canagggtgag gctgggccct 240
ccctggtctc cagcttaaac aggactgaac tccctctgtc cccagggcct cccttctggg 300
ccccctacag tctaccctac ccctcctcca tggggccctgn angangggan acccaccttg 360
aagtggggga tcaagtatag gcttgcaent g 391

<210> 4208
<211> 140
<212> DNA
<213> Homo sapiens

<220>
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<220>
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3836

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<220>
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<222> (121)
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<220>
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<222> (140)
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ggaattcccg ggctcgaccca cgcnttcgta cagtttntgg gaccacattg aggtggntga 120
ngatgaagac gagacgcacn 140

<210> 4209
<211> 360
<212> DNA
<213> Homo sapiens

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<220>
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3837

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<220>

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<220>

<221> misc feature

<222> (144)

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<220>

<221> misc feature

<222> (195)

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<220>

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<222> (237)

<223> n equals a,t,g, or c

<220>

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<222> (315)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (338)

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<220>

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<222> (347)

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3838

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cagataggggt ctgccaaacc taccctgana tggagctgct tccagccaca tcccatcggtg 120
gcatcattgt ggctgggtctc ttgngctgta tcaactgagct gtggcgctgc gtatgtggag 180
gagaagactc aatanaaaga ggagtacact angctgaagc agtacantgc cagggcntga 240
tggccctcac agcttgaaag tggaacagct gcttggtgtgg actgaaagca agttgtcctg 300
ccttccttgt acttnaaacc ctgctttgtt ctgaaagnac ctgatgngcn ggttcgngag 360

<210> 4210

<211> 157

<212> DNA

<213> Homo sapiens

<220>

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<220>

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<222> (26)

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<222> (30)

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<220>

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<222> (87)

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<220>

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<222> (102)

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<220>

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3839

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<222> (140)

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<400> 4210

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gatatgctct ttaagtaata ttgagtnttt caaaagatac tncataatga tgaattaaaa 120
taactttata tntctctaan gaaataacan atagttat 157
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<210> 4211

<211> 215

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (14)

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<220>

<221> misc feature

<222> (38)

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<222> (44)

<223> n equals a,t,g, or c

<220>

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<220>

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<222> (95)

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<220>

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<222> (106)

3840

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<220>

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<222> (165)

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<220>

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<222> (166)

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<220>

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<220>

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<222> (209)

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<220>

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<222> (212)

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<400> 4211

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acgaccgcca tgcacgctag ctctatagng caccnatcat cactgncgcg ttacaacgcg 120
tgctggaaac cctgcgtacc cactaatcgc ttgacacatc ccttnncagt gggaaacgaa 180
naggccgcgc tgccttcca cagtggcanc tnatg                               215
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<210> 4212

<211> 103

<212> DNA

<213> Homo sapiens

<220>

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<222> (19)

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<220>

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3841

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<220>

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tgcctgtanc ctncctattc tcanacccac tttcctgttg ctt 103

<210> 4213

<211> 211

<212> DNA

<213> Homo sapiens

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<220>

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3842

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tgcnatcttc tcctaataatgna cctgacccca aagtcaggct gtccgcgnct cggcctgacc 120
gtcacacagg gcggcaacag agcactaaga cgtgngacat atgaaatnga anagaacgtg 180
naacagatna ttattctctt gaatgtgata g 211

<210> 4214
<211> 162
<212> DNA
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3843

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tcatgctcgn atgcatgagg ctgtgacaac cactcacgca naaagcctct cctgtccccgg 120
taaatgagtn nacngccgga agcccccgtc cccggctctc gc 162

<210> 4215
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<212> DNA
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3844

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tgtaacaaaa atatcttaca gatacatgaa attangaana tctaaaagta ccattactct 120
aaactaana 129

<210> 4216
<211> 302
<212> DNA
<213> Homo sapiens

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3846

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cagncatgca cactcgggat cactccaaat gatagnaaaag cnaaanattt aaaggggtgt 120
ctcttgatan acagaacatc accatntaag ncgctgtttt acgactgtna cactgacaag 180
ttgtgggtcaa nccngaggaa tgtcaagcag acantgggtga acatttgana ggcatagtg 240
agctttgtca atgganctac ctgcgatctg tggattgggc gaataaaaaa ngacacgntt 300
tg                                                                 302
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<210> 4217

<211> 127

<212> DNA

<213> Homo sapiens

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<220>

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<222> (26)

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<220>

3847

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<220>
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<220>
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<220>
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gganatt 127

<210> 4218
<211> 359
<212> DNA
<213> Homo sapiens

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<220>
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<220>
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3848

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<220>
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<220>
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3849

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<220>

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<220>

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<220>

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<222> (315)

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gtggtncaga gagtccggga ggccgtctga cnaccagcc ngaaacagcn ctcggatccc 120
agctgataag gagctggggc tcggtgtcta tntgtgaacc actgcacgcg gacacattac 180
aggctcgggc tgnncgtcct ctcctgctgc agctgcatct ccgctaattgg ggccagctgc 240
taacattgag gntggnnncnc atccnttcgg cgtccgtga gacaaggcag cctgnccacc 300
agctgngcac ttcgnctgat gacacagatg gctcatgaat gcctgngacc ggggtgcggc 359
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<210> 4219

<211> 139

<212> DNA

<213> Homo sapiens

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<220>

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<222> (24)

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<220>

3850

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<220>
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<222> (96)
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<220>
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agtacaggcc aacctnccac tgectnctct gctccnagaa aactcgagga ntgncttctt 120
ttggtttact aactgttca 139

<210> 4220
<211> 257
<212> DNA
<213> Homo sapiens

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<220>
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3851

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<222> (233)
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<220>
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3852

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<400> 4220

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attgcttaga agaagtggcc cgctcagga acccagccct acancgcaa atccgaaagg 120
gcaactctct ggnccctcca ggaggacccc agggntgaag gaagctgcct tgaccacatc 180
tccgcaggaa atggctcagt ccgtcaagnt gtgaaaaaag ctgnccgcgc tgnngagtcc 240
ttccaatgct gncatgg                                     257
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<210> 4221

<211> 288

<212> DNA

<213> Homo sapiens

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<222> (53)

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3853

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<220>
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ccgcancctg ccntgcagag aatngcagga tcccgatctg catgattcag aaaggcatga 120
caagagaaga ctcaccgtaa atcaaggntn aaagaaaaga agngaangtc tcgcactgtc 180
aaaccagtgg tggtaacaaga acggcggacc cgggtggtaa actcncaa at gctagaatta 240
tctctnaaga tgtcctcgaa gctgttngcc acggaaaaan cgatagtn 288

<210> 4222
<211> 149
<212> DNA
<213> Homo sapiens

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<220>

3854

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<220>
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ctcagggagg tggncgagg gccnccgtg gaaaacaatg catgaggggg ngcatctctt 120
cagcttagca gngtgacnca agaggctaa 149

<210> 4223
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<220>
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3855

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<222> (42)

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<220>

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<222> (87)

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taaggatcac tataactgtc ccacaangag tacagtctat aacatagctg ga 112

<210> 4224

<211> 200

<212> DNA

<213> Homo sapiens

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3856

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gtgncgcggg ataaccctgt gtggaattgt gactggtatt tcagaagaag agaattggcaa 120
gatgagaagc tgnataagga gatggggtaga tcataggnac caatgcataa catanatnga 180
agatataang aagggaaaaa 200

<210> 4225
<211> 102
<212> DNA
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<220>
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3857

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<220>
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<222> (98)
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<400> 4225
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gataatggaa cgcacacaca cacaagnccc catcgcanc ac 102

<210> 4226
<211> 135
<212> DNA
<213> Homo sapiens

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<220>
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<220>
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<223> n equals a,t,g, or c

<220>
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<222> (102)
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<400> 4226

3858

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ttccaccatc gcatccccgg acccnctgc atatcgatgc tngacatcgg ggagggagta 120
agctaccact gtctt 135

<210> 4227

<211> 180

<212> DNA

<213> Homo sapiens

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3859

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ggtttggtat gtgnaaccca aggtatncga ttattgaaca gcnatatgat aggaatcttt 120
tcatacagca gtcttgggat gtataanctg aactgggnca tggcgagata nttgccaaag 180

<210> 4228

<211> 212

<212> DNA

<213> Homo sapiens

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<222> (49)

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3860

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<400> 4228

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nngagctcaa ntgcgtgacg gctcacactt gtnaccagac tacatctgnt ttgatacatt 60
cacacacaag gtggacaaga gagtcaccaa atttgtacaa aactcacaca tnccacgtgc 120
agncactgac tctgcgggga cgcagcttct cttcccaaaa ccaaggacac ctcatgaatc 180
tcctnaccct nacgtacatn ctctgnttgg ac 212
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<210> 4229

<211> 145

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

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<222> (12)

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<220>

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<222> (30)

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<220>

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<222> (86)

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<220>

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<222> (98)

3861

<223> n equals a,t,g, or c

<220>

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<222> (130)

<223> n equals a,t,g, or c

<220>

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<222> (131)

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<220>

<221> misc feature

<222> (132)

<223> n equals a,t,g, or c

<400> 4229

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tctntcaaaa tnttgggagc tttaagaacn ttgacattga aacgagctgg gaatggaaaag 60
gctagcaagt atgctgggca tgcccncctga agccccnctg gacgaggata ccataaatct 120
cttgtggaan nnagaccaga cgaca                                     145
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<210> 4230

<211> 309

<212> DNA

<213> Homo sapiens

<220>

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<222> (2)

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<220>

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<222> (11)

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<222> (17)

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<220>

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<222> (55)

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<220>

<221> misc feature

<222> (78)

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3862

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<222> (208)
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<220>
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<220>
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<222> (274)
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<220>
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<222> (302)
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<220>
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<222> (303)
<223> n equals a,t,g, or c

<220>
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<222> (307)
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catgaaggag atggaacnca gatgtgcgca ttgcaccagg ctcaacaaag ctgctggcca 120
aaggaataag gatgtccata ccgaatccgt gtgccggctg ccagaaacgt aatgaggatg 180
aagatcacca gataagctaa tacttggnac ctatgacctg taccactttc naaatctaca 240
gacagcaatg tgatgaaaca aatcgctgtc gtanatcaaa taaagtataa atcgcttcaa 300
anngaanat 309

<210> 4231
<211> 115
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (36)
<223> n equals a,t,g, or c

<220>
<221> misc feature

3863

<222> (48)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (50)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (70)
<223> n equals a,t,g, or c

<220>
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<222> (81)
<223> n equals a,t,g, or c

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cactgcatct ggacttcctg aatgaggcgc tcggtnccca gctggatncn ggaacctgcc 60
cttcctaggn acaccctagg ntaccctctg ctccttccct gctgtgtggg gagat 115

<210> 4232
<211> 253
<212> DNA
<213> Homo sapiens

<220>
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<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (11)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (22)
<223> n equals a,t,g, or c

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<222> (30)
<223> n equals a,t,g, or c

<220>
<221> misc feature
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3864

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<220>
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<220>
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<222> (204)
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<220>
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cagcaccacc tgtggcagga cgcagcttct ccccccaaa cccaaggcac cctatgatct 120
ccggaccctg aggacagtgc gtggnggtga cgtgaccacg aagacccgan gtccagttca 180
acctggaccg tggacngcat ggangtgnca taatgcnaga caagccacgg aggagcagtc 240
aacagcacgt ccg 253

<210> 4233
<211> 102
<212> DNA
<213> Homo sapiens

<220>
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<220>
<221> misc feature
<222> (59)

3865

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (67)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (69)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (78)

<223> n equals a,t,g, or c

<400> 4233

gaagtncatc gcttaacctg cgtggaattt tgcgaccttg tatgcaggga aacagggcnc 60

ctgaagnnga ctcttctnag atatcaacta ttgatgatat cc 102

<210> 4234

<211> 231

<212> DNA

<213> Homo sapiens

<220>

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<220>

<221> misc feature

<222> (28)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (29)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (73)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (76)

<223> n equals a,t,g, or c

3866

<220>
<221> misc feature
<222> (121)
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<220>
<221> misc feature
<222> (157)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (194)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (224)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (225)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (229)
<223> n equals a,t,g, or c

<400> 4234
caagactgct tgtagacgcn caattccnna taccaaagct gaaaatggct gcataaatat 60
ttccccgtaa ttntcnaagg aaaatgatac aagactaatt acatactgat taaaaagcaa 120
nctagaaaact tcttacatat ctctatttaa catttgnaaa gaaacaaatt gtcaggggct 180
ctgcagacaa catnatatct cttaatcatg caaattaaat gatnnatana a 231

<210> 4235
<211> 202
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (10)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (18)
<223> n equals a,t,g, or c

3867

<220>
<221> misc feature
<222> (44)
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<220>
<221> misc feature
<222> (66)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (69)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (140)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (145)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (156)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (164)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (185)
<223> n equals a,t,g, or c

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cctaattgan acaacttntt cagagaaacc ctttccccgg attngattga aaaggacctg 60
gacagnatng ctgttcacag actggttatc ttctcaggaa agaacaaaaa gtacaacagg 120
ctcttctaga aagtctggan tctgnctgga gatagncagg gagnaccagt gtagtgaagg 180
agaanctaca tcttaagaag tg 202

<210> 4236
<211> 103
<212> DNA
<213> Homo sapiens

3868

<220>
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<222> (30)
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<220>
<221> misc feature
<222> (52)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (64)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (73)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (75)
<223> n equals a,t,g, or c

<400> 4236
ttatacatgac attgtgagaa aatgtgatgn ggcaagagtg agtaataatg anccctacaa 60
accncagcag aantngcatc ttatcttttag aaaaaaaaga taa 103

<210> 4237
<211> 390
<212> DNA
<213> Homo sapiens

<220>
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<222> (15)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (22)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (39)
<223> n equals a,t,g, or c

<220>
<221> misc feature

3869

<222> (103)
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<220>
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<222> (128)
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<220>
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<222> (130)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (181)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (194)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (199)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (227)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (235)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (241)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (277)
<223> n equals a,t,g, or c

<220>
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<222> (303)

3870

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<220>

<221> misc feature

<222> (356)

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<220>

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<222> (357)

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<220>

<221> misc feature

<222> (384)

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<220>

<221> misc feature

<222> (385)

<223> n equals a,t,g, or c

<400> 4237

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agaagctatt ctctnacgat tnatgtgtta gccctgtgna gttaactttg tgtcgggtgcc 60
taccgcatat aagataagct gaaacgctgc tggagtgtgt gcngtgccac ctttggcgct 120
tcgggctnan caggtgcaag tggactgcac cttctgcagc tctactgtgg cgtttgtggc 180
ncgaagaact cgtnacttnt gtgacgaagt ggtggctctg tgccctgnctg ccagncctgt 240
nccatggacc cagtgtggtg aggcactctgc agegcgntag gccagcgctg catgaccgtc 300
tgncctgacc catggaccca gatctgtctc ggtggccttc cctcatgcag gtgcannccg 360
gctaataaca tgtgtggctc caanntaaaa 390
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<210> 4238

<211> 122

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (12)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (72)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (82)

<223> n equals a,t,g, or c

3871

<400> 4238
tacgggggaaa cncgactcac ttttgggaaa gctgccacgc ctgcaggtag cggtccggaa 60
ttcccggggtc tncccacgct tncgctaaag agttgctgct tttttcataa aaaaaaaaaa 120
aa 122

<210> 4239

<211> 349

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (20)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (47)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (109)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (270)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (288)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (316)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (319)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (321)

<223> n equals a,t,g, or c

<400> 4239

3872

gagggattgt gacgacgagn ttgggagagg acaacagaga aatgganaga tgtggatgga 60
gttccttttag tctctgctct tgtgctctc tgggggaatg tcttatacng ttttaaagga 120
ctctgtggtc aagaaagttt gggaaacact gttccaaatg tctgcaagcc ccataccct 180
attcaactcc atgacagctt ctattgatag gctctatcct cactgtaaaa attttcaatg 240
tatgctctga tggtcactgg taaagaatgn tacggaacca gcttggtntt ctggaaactg 300
gtaaataaca ggaacnatna ngcattaatt ctgctattgg tcactaata 349

<210> 4240

<211> 300

<212> DNA

<213> Homo sapiens

<220>

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<222> (19)

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<220>

<221> misc feature

<222> (53)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (86)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (107)

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<220>

<221> misc feature

<222> (165)

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<220>

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<222> (250)

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<220>

<221> misc feature

<222> (276)

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<220>

<221> misc feature

<222> (287)

<223> n equals a,t,g, or c

3873

<220>
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<222> (288)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (290)
<223> n equals a,t,g, or c

<400> 4240
ggcatggcgg agccgctgnt ggcgcgcgga gaggccgggc gagtcgggcg ggntcggcgc 60
ccgcgctgag ccgcggagga ggggcngagg acgcccctgc agccggngcg tctgccctca 120
gtgagggcggg gcgcgcggcg gacgcccccg ggcaggggag ggagnggtgg aggcgcgcgc 180
ggatggcact gacaggggag gtgagcgagc cgctccgggc tccgggagag gcttggcctt 240
cctagcagan acgccgtcta ccgcaggacg ttccancgag ggaaaannan tcggatcgta 300

<210> 4241
<211> 131
<212> DNA
<213> Homo sapiens

<220>
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<222> (12)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (13)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (22)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (66)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (70)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (99)

3874

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (126)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (127)

<223> n equals a,t,g, or c

<400> 4241

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ggtacgtgat anntttggga angcccccg tccggttttg ccgggtcgcc ccacgcgtgc 60
gaaagngatn atacatgtat ttgaacactt gatggttcna acagtcttaa atgtaatgct 120
tgggggnaag c                                     131
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<210> 4242

<211> 146

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (25)

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<220>

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<222> (88)

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<220>

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<222> (91)

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<220>

<221> misc feature

<222> (121)

<223> n equals a,t,g, or c

3875

<220>
<221> misc feature
<222> (132)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (140)
<223> n equals a,t,g, or c

<400> 4242
cncngggaac gccccctata gggtnagggtg gaacgcccgc aggtaccggt ccggaatttc 60
cgggtcgacc cacgcgtccg gcgtgatnca nggtctgggg accacagtgc tgatggaggg 120
ngaggctacc tnaagaaagn gagatg 146

<210> 4243
<211> 300
<212> DNA
<213> Homo sapiens

<220>
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<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (15)
<223> n equals a,t,g, or c

<220>
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<220>
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<222> (77)
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<220>
<221> misc feature
<222> (109)
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3876

<220>
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<222> (273)
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<220>
<221> misc feature
<222> (287)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (293)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (296)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (298)
<223> n equals a,t,g, or c

<400> 4243
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cacgcgtccg gggctcntcg ggaccagatc cgcgagccccg tcagcctgng ccatgggctg 120
cgacggccgc gtgtcggggc tgctccgccg caacctgcag cccacgctca cctactggag 180
cgtcttcttc agcttcggcc tgtgcatcgc ctctctgggg cccacgctgc tggacctgcg 240
ctgtcagacg cacagctcgc tgccccagat ctntctgggtc ttcttcncgc agnagntntg 300

<210> 4244
<211> 318
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (15)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (28)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (49)
<223> n equals a,t,g, or c

3877

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<220>
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 <222> (76)
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<220>
 <221> misc feature
 <222> (214)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (271)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (297)
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<220>
 <221> misc feature
 <222> (301)
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<220>
 <221> misc feature
 <222> (304)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (311)
 <223> n equals a,t,g, or c

<400> 4244
 aggccccggt ccggnntttcc cgggtcgncc cacgcgtccg ctctgtttta gagaggccag 60
 gctgggtttct gccntnatcc tttaacacag catcttctcc cagaggcctg aggatgggaa 120
 aaagtgatgg agaaaagggg aaccctaag gtcaccctc agccaggggg aactgtttaa 180
 caggggtttg tctctgccct tttgagcctt tggntttcta cctggctcag gcaccaggt 240
 ttatgttttc tagatcaaaa ctctgcatgg nctccctgag aagactggga gaagaantt 300
 nccntcagga ntgggatt 318

<210> 4245

<211> 206

3878

<212> DNA
<213> Homo sapiens

<220>
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<220>
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<222> (67)
<223> n equals a,t,g, or c

<220>
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<222> (73)
<223> n equals a,t,g, or c

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<220>
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<220>
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<222> (121)

3879

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<220>

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<222> (155)

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<220>

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<220>

<221> misc feature

<222> (179)

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<400> 4245

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ggctcgccctt tcacaaagag cttcaacagg ggagantggt agagggagaa gtgccccccac 60
ctgctgntca gcnnacagcct gaccnntcc catnctctgg nctctgacct tttnttcaca 120
ngggacctac ccctattgcg gtctccagc tcatntttna cctgacctt cttcttctnc 180
ttggctttaa ttatgctaata gttgga 206
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<210> 4246

<211> 137

<212> DNA

<213> Homo sapiens

<220>

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<222> (7)

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<220>

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<222> (52)

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<220>

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<222> (76)

3880

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<220>

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<222> (113)

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<220>

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<222> (126)

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<400> 4246

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tattaggaaa tgcatntaac catgttttag atgagtgcta aaggaagctt ttnagggggc 120
ccctgncaat aaggggag                                     137
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<210> 4247

<211> 108

<212> DNA

<213> Homo sapiens

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<400> 4247

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taatcngggc tcacctggac ttaagcagnc tggctggaat ccacagtg                108
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3881

<210> 4248
<211> 164
<212> DNA
<213> Homo sapiens

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<220>
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<220>
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<220>
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<400> 4248

3882

accacngaca nctcggaaac gncccactat aggggttaggn ggaacgcccg caggtagccgg 60
tccggaattc ccgggtcgac ccacgcgtcc ggtactctnt taaaattcct gtgtaaactg 120
ggactttgcn gttcacnttc ttgtgtttca agaacagtan cncg 164

<210> 4249

<211> 196

<212> DNA

<213> Homo sapiens

<220>

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<220>

<221> misc feature

<222> (9)

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<222> (34)

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<220>

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<222> (111)

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<220>

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<222> (132)

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<220>

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<222> (133)

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<220>

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3883

<222> (144)

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<220>

<221> misc feature

<222> (163)

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<400> 4249

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gtctatctgc tgatgagcta agaatttgca agacagtaca gctgcagcag ncatcactaa 120
gcagaacttc tnnagccaca catnaccaca gaatctcact ggncattgtg ctatgctctg 180
ccaatggcat gctgaa 196
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<210> 4250

<211> 259

<212> DNA

<213> Homo sapiens

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<220>

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<222> (31)

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<220>

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<222> (33)

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<220>

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<222> (49)

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<220>

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<222> (51)

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<220>

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<222> (121)

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<220>

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3884

<222> (138)
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<220>
<221> misc feature
<222> (152)
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<220>
<221> misc feature
<222> (196)
<223> n equals a,t,g, or c

<220>
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<222> (200)
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<220>
<221> misc feature
<222> (209)
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<220>
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<222> (247)
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<220>
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tctttccacc gtgtgctggg aaaaggcatc ggagacctgg catcgcaaag ctctctttga 120
ngaaagatga tctcgatnca tcccgagctg angcctcatc aagaagggga agattcgtga 180
aaccctgaag tgaccntgtn ctggtggcna gttcctaatt atgaaaggat atgcactgaa 240
agccgtncng ataacttga 259

<210> 4251
<211> 187
<212> DNA
<213> Homo sapiens

<220>
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<220>

3885

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<222> (30)
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<220>
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<220>
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<220>
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<220>
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<222> (133)
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<220>
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<222> (134)
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<220>
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<222> (143)
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<220>
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<222> (148)
<223> n equals a,t,g, or c

<220>
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<222> (163)
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<400> 4251
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atgtcatata atatgcagat gacataagac tatTTTtctaa acatcctcca tcttccacag 120
agtgtgatgt canncctcag tgnctatntg gacttagatg ggntcactct tctctggaat 180
gatgaga 187

<210> 4252

3886

<211> 134
<212> DNA
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<220>
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<222> (112)
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<220>
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<222> (117)
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<220>
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<222> (130)
<223> n equals a,t,g, or c

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tactntggtn cgcttgggac aactagaaac ttaaacagca aatggccaag tnaacanaca 120
ttgtgcatan gctg 134

<210> 4253
<211> 115

3887

<212> DNA
<213> Homo sapiens

<220>
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<220>
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<220>
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<220>
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<222> (84)
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<220>
<221> misc feature
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<220>
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<400> 4253
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gcaacatgtg tcgccaggna ggancgtgtac cttctgttcg anacnaatgc ggctg 115

<210> 4254
<211> 104
<212> DNA
<213> Homo sapiens

<220>
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3888

<220>
<221> misc feature
<222> (39)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (48)
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<220>
<221> misc feature
<222> (77)
<223> n equals a,t,g, or c

<220>
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<222> (84)
<223> n equals a,t,g, or c

<400> 4254
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gagctgtcat tgagccntca tcantcgcta ctggagaaca tatg 104

<210> 4255
<211> 242
<212> DNA
<213> Homo sapiens

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<220>
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<220>

3889

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<220>
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<222> (211)
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<220>
<221> misc feature
<222> (218)
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<220>
<221> misc feature
<222> (237)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (241)
<223> n equals a,t,g, or c

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ttgaacacta acgagatatt gcagcccttg acggagaata gagcacatag aagctcggtg 120
acnaaagggtg agacactcac ctagaacagt gccgtgctgt gctgngaagg tgcttacaca 180
cacaggccac atgggaaagg ccagcagcc ntaagctnct acttctccat aaagagnaca 240
ng 242

<210> 4256
<211> 235
<212> DNA
<213> Homo sapiens

<220>
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<220>
<221> misc feature
<222> (25)
<223> n equals a,t,g, or c

3890

<220>
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<222> (37)
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<220>
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<220>
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<222> (87)
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<220>
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<222> (118)
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<220>
<221> misc feature
<222> (142)
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<220>
<221> misc feature
<222> (162)
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<220>
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<222> (190)
<223> n equals a,t,g, or c

<220>
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<222> (216)
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<220>
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<222> (222)
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<400> 4256
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tacattcttc tgctctangg ctcagancac atacgacgga tagcaccaca acctgctncg 120
gacgtcgatt gagctaagca tnggtgctgt cgtatccgctc tntgccgaag actgtgacgt 180
gaaatgaatn tggcagtcctc tcaactcgat tcccanagcc gngactgatt gactg 235

3891

<210> 4257
<211> 266
<212> DNA
<213> Homo sapiens

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<220>
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<222> (33)
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<220>
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<222> (61)
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<220>
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<220>
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<220>
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<222> (215)
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<220>
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<220>

3892

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<220>
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 ncagtnghaa tgggagacta gnctcagctc ctatacgcac cctggagagc ggctcatctc 120
 tgatgtctag cagacctcct natagaatgg aacaactatt ggatgggtacc tgagaaccag 180
 gcagctctcac agntcctgat cattgggtcta atccngnctc cgggtcctgc aggtcantgc 240
 agtgggtatg cacanaactta cactga 266

<210> 4258
 <211> 101
 <212> DNA
 <213> Homo sapiens

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<220>
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<220>
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<400> 4258
 ggggaaggna cgggggacca gttgggnaaa agggccccca tttnggggaa aaacgggccc 60
 ccgtaagaag ggaaggatnn ggagagcggc gacgaaaccg g 101

<210> 4259

3893

<211> 105
<212> DNA
<213> Homo sapiens

<220>
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<222> (26)
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<220>
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<220>
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<222> (87)
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<220>
<221> misc feature
<222> (91)
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<400> 4259
attgcttaat tgcntgggta cctttnatat caactattat ctttctggga aagttttcgt 60
ttttctgtaa accaacctcc atngacncga naaatcattt cttaa 105

<210> 4260
<211> 101
<212> DNA
<213> Homo sapiens

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<220>
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<222> (20)
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<220>
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<222> (58)

3894

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<220>

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<222> (69)

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<220>

<221> misc feature

<222> (91)

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<400> 4260

ccattgatct gccgcagnan tttctagaca atcggccaca atagaagctg cgtaatanat 60
agatgaaanc attcctctgt actctttaat nccatccttg a 101

<210> 4261

<211> 314

<212> DNA

<213> Homo sapiens

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<220>

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<222> (58)

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<220>

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<222> (94)

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<220>

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<222> (115)

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<220>

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<222> (117)

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<220>

<221> misc feature

<222> (124)

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3895

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<220>
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<220>
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<220>
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<222> (307)
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<220>
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<222> (310)
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tctgccatct actgaacttaa ttttcaattc tgcnaactcca tcttcaaacc ccttnanctt 120
tccnatccta ctcctgcnat gcattgaagg gtcaatgcat ttnggggtga gctctgggtt 180
tagggggccc ntccatccct nagctaccct ggatctttgc ccacctnttc ctcagagccc 240
ccactgaggg gccgtagcct atctaggggt ntgggnaggag cagattggtt cctaactgtt 300

3896

ttccctngtn ttg

314

<210> 4262

<211> 372

<212> DNA

<213> Homo sapiens

<220>

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<220>

<221> misc feature

<222> (70)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (90)

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<222> (94)

<223> n equals a,t,g, or c

<220>

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<222> (158)

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<220>

<221> misc feature

<222> (166)

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<220>

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<220>

<221> misc feature

<222> (210)

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3897

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<220>
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<220>
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 cactctgtan gcccatgggt cccttactan anangttgag tgaatttgcc ttcagttaac 120
 atgggacctt ctgttttagct tcctcttgc tcccaaanat ttttaancatt ttgtaaatgt 180
 ataaactcac ctctggtaac antggccan acctgctttg tgctaaaaac atgggaaatt 240
 ttaagcagtc tttctcttgg aaatggatgc tattctattc tgctgcccct acttttnccg 300
 aaggcctctt ttaaaaaaaaa aatcccnca aaaggtttct ggcacccatt ttcttanccn 360
 ggccaatttt nt 372

<210> 4263
 <211> 559
 <212> DNA
 <213> Homo sapiens

<400> 4263
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 gaatccctgg gcaaagattt cctcactggg gttttggata acttggtgga acaaaatgta 120
 ctgaactgga aggaagagga aaaaaagaaa tattacgatg ctaaaactga agacaaagtt 180
 cgggtcatgg cagactctat gcaagagaag caacgtatgg caggacaaat gcttcttcaa 240
 acctttttta acatagacca aatatcccc aataaaaaag gtgataaatt gggtcacaga 300
 ggcagaaatc acaatttatg ttctgcaata tcctgcagct catccgaata tggaggctgg 360
 accacctgag tcaggagaat ctacagatgc cctcaagctt tgctctcatg aagaattcct 420
 gagactatgt aaagaaagag ctgaagagat ctatccaata aaggagagaa acaaccgcac 480
 acggctggct ctcatcatat gcaatacaga gtttgaccat ctgcctccga ggaattgagc 540
 tgactttgac atcacaggg 559

3898

<210> 4264
<211> 541
<212> DNA
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<220>
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3899

<400> 4264

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gggacttcaa gnaataagta cgaagatgaa attaaccgcc gcacagctgc tgagaatgag 180
tttgtggtgc tgaagaagga tgtggatgct gcctacatga gcaagtggag ctggaggcca 240
agggtgatgc cctgaatgat gagatcaact tcctcaggac cctcaatgag acggagttga 300
cagagctgca gtcccagatc tccgacacat ctgtggtgct gtccatggac aacagtcgct 360
ccctggacct ggacggcatc atcgctgagg tcaaggcaca gtatgaggag atggccaaat 420
gcagccgggc tgaggctgaa gcctggtacc agaccaagtt tgagaccctc caggcccagg 480
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c 541

<210> 4265

<211> 455

<212> DNA

<213> Homo sapiens

<220>

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<220>

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<222> (5)

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<220>

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<222> (10)

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3900

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3901

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<220>
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<220>
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<220>
<221> misc feature
<222> (384)
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<220>
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<220>
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<220>

3902

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<220>
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 <222> (440)
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<400> 4265
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 ctggagctcc accgcggtgg cggccgctct agaactagt gatcccccg gctgcaagga 120
 aattcggnaa aattcccagg ncacagcaaa ggtcngtnaa accccccccn ccattcccag 180
 ttatnngggg ccccnngaat cctcctgttc cttnaatcag gctcngtttn ccccttagcc 240
 actacgggna gncctctgaga gtgccgcttt acttgcatte tgcaacaatt acntgtntcc 300
 ttnagatcct ngggccaant tccctccctc tcccagctcc tggcccctgg ggccagggcc 360
 cctcttgctg tttttacctc tgtnccttgg ggcctactac ccaagnaagc acccgaangg 420
 ggggangttt tggggattan aagaggaaac cttct 455

<210> 4266
 <211> 271
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (7)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (10)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (47)
 <223> n equals a,t,g, or c

<400> 4266
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 aactagtggg tcccccgggc tgcaggaatt cggcacgagt gccattttta tcaaagttgt 120
 aattttttaa aagtcaccta aaactctggt tttaaaagat cctctgtatt gaaaacttct 180
 gataatgtat gtcattatgt cttactatt ccttaattgt agtttttaaa tattggtata 240
 gtacttgaca gagtaaatac ttcatctgat t 271

<210> 4267
 <211> 355
 <212> DNA
 <213> Homo sapiens

3903

<220>
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<222> (20)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (87)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (224)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (311)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (334)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (347)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (354)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (355)
<223> n equals a,t,g, or c

<400> 4267
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gtcccaaga tgccagtga cttgtcngga agcttggtgc agacgatgta attgattaca 120
aatctggaag tgtggaagag cagttgaaat ccttaaaacc atttgatttt atccttgata 180
atgttggcgg atccactgaa acatgggctc cagattttct caanaaatgg tcaggagcca 240
cctatgtgac tttggtgact cctttcctcc tgaacatgga ccgatagggc atagcagatg 300
gcatgttgca nacaggagtc actgtagtgc aaangcatta aagcatntct ggann 355

<210> 4268
<211> 338
<212> DNA

3904

<213> Homo sapiens

<220>

<221> misc feature

<222> (76)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (82)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (271)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (290)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (330)

<223> n equals a,t,g, or c

<400> 4268

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gccgtcatct actctacccat ctttgcaggc acactcatca cagcgctaag ctgcgactga 60
ttttttacct gagtanggct anaaataaac atgctagctt ttattccagt tctaaccaaa 120
aaaataaacc ctggttccac agaagctgcc atcaagtatt tcctcacgca agcaaccgca 180
tccataatcc ttctaatagc taccctcttc aacaatatac tctccggaca atgaaccata 240
accaatacta ccaaatcaat actcatcatt nataatcata atggctattn caataaaact 300
aaggaatagc cccctttcatt ctgaatcccn aaagttac 338
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<210> 4269

<211> 479

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

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<220>

<221> misc feature

<222> (210)

<223> n equals a,t,g, or c

<220>

3905

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<222> (226)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (227)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (249)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (258)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (259)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (324)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (328)
<223> n equals a,t,g, or c

<220>
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<222> (355)
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<220>
<221> misc feature
<222> (360)
<223> n equals a,t,g, or c

<220>
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<222> (404)
<223> n equals a,t,g, or c

<220>
<221> misc feature

3906

<222> (410)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (426)
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<220>
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<222> (461)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (479)
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<400> 4269
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cctggcccaa cccgtcatct actctaccat ctttgcaggc acactcatca cagcggctaa 120
gctcgactg attttttacc tgagtaggcc tagtaaataa acatgctagc ttttattcca 180
gttctancca aaaaaataaa ccctcgttcn acagaagctg ccacnngtt atttctcac 240
gcaagcaanc gcatccanna tccttctaataa ggctatcctc ttcaacaata tactctccgg 300
aacaatgaaa ccataaccaa tacnaccnat caatactcat cattggataa gcatnatggn 360
tattggcaat taaaactagg aatagcccc ctttcacttc tgantccan aagggttacc 420
caaggnaccc cctgaaatcg ggctgcttct tctcacatga naaaaataac cccgctcan 479

<210> 4270
<211> 376
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (359)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (366)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (372)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (374)

3907

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (376)

<223> n equals a,t,g, or c

<400> 4270

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cccacgcgtc cggacccacg cgtccgatca acaccctcct agccttacta ctaataatta 60
ttacattttg actaccacaa ctcaacggct acatagaaaa atccaccctt tacgagtgcg 120
gcttcgaccc tatatccccc gcccgcgctc ctttctccat aaaattcttc ttagtagcta 180
ttaccttctt attatttgat ctagaaattg ccctcctttt acccctacca tgagccctac 240
aaacaactaa cctgccacta atagttatgt catccctctt attaatcatc atcctagccc 300
taagtctggc ctatgagtga ctacaaaaag gattagactg aaccggataa aaaaagaana 360
agagangaag ananan                                     376

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<210> 4271

<211> 542

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (482)

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<220>

<221> misc feature

<222> (527)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (536)

<223> n equals a,t,g, or c

<400> 4271

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gagtaaacad tgctcaccag atctctctac gttcagaagc attttttcat gcaatgacct 60
ctcaacacga gttgcaggac tacctcagga aaacttccca ggctgtaaaa atgcttcgag 120
ataaaattgc acagattgat aaagtaattg gtgaaggatc actccacatt ttaagactgg 180
cacttaccag aaataattgt gttaaagtat acaataagct gaagttaatg gccactgtac 240
accagactca gcttacagta caggtgttat tatctacttc tgaatttggt ggagcattgg 300
acttaatagc aacaacacaa gaggttctac agcaggaact tcagggcatt cacagtttcc 360
ggcatttggg atcacagctt tgtgaattag aaaaactgat agataaaatg atgattgcag 420
aattttctac ttattctcac agtgacttaa atagaccact ggaagatgac tgtcaagttt 480
anaaagagga aagactaata tctcttggat ttggctttta aaccaanaaa gcttantttt 540
aa                                                    542

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<210> 4272

<211> 611

<212> DNA

3908

<213> Homo sapiens

<220>

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<222> (340)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (460)

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<220>

<221> misc feature

<222> (469)

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<220>

<221> misc feature

<222> (530)

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<220>

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<222> (534)

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<220>

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<222> (579)

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<220>

<221> misc feature

<222> (582)

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<220>

<221> misc feature

<222> (587)

<223> n equals a,t,g, or c

<400> 4272

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cagcaacgct cacttttgcca agctgcgcga cttcatcaact ctgcgccttc cacctggctt 120
ccccgtcaaa attgagattc ccctttttcca cgtgctcaat gcccgcatca ccttcagcaa 180
cctgtgtggc tgtgatgagc ccctgagctc cgtgtgggtg ccggccccca gctctgctgt 240
cgccgcatca ggggaaccctt tcccgtgcga ggtggacccc accgtgtttg aagtgcceaa 300
cggttacagc gtgctgggca tggagcgcaa cgagccctn cgggacgagg acgatgacct 360
cctgcagttc gccatccagc agagcctgct tgaagcgggc actgaggcgg agcaggtggg 420
acttgcccag ggggtgggct ctggcctctg cagacacacn gcagaagtna cagctgtggg 480

```

3909

ctctggtggc tgcaggtgac cgtctgggaa ggccttgacc aacacccggn ccgntgcccg 540
gccttcttcc caggccacgg tttatgagga acagcttang cntggancgg ggccttcag 600
gaaaagccct g 611

<210> 4273

<211> 352

<212> DNA

<213> Homo sapiens

<220>

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<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (54)

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<220>

<221> misc feature

<222> (75)

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<220>

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<222> (116)

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<220>

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<220>

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<220>

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<220>

<221> misc feature

3910

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<220>
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<220>
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<222> (307)
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<220>
<221> misc feature
<222> (324)
<223> n equals a,t,g, or c

<220>
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<222> (333)
<223> n equals a,t,g, or c

<220>
<221> misc feature
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gtgcaagccc gtagnaacac aatgctgggt gtttgggggc attgggtttcc tgggnngtcc 120
attgtttgca taaaatttgg acaagatctc ntgtctaana cccaaatact ctatgtngtg 180
ctttggcttn nttgcgtggc tttgnaccac tttcctctgt tcttttacgg catgnttttg 240
tatgcagaac actatgggtg cactgggnaa aagacctgac ttcggaagtg tgaaagatgg 300
gcacctnttg gttcccgatg gatncttcct ggncatcctt aggtnaaggg ga 352

3911

<210> 4274
<211> 407
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (297)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (334)
<223> n equals a,t,g, or c

<400> 4274
cagaaaaatat gcctcatata acatgagaga tgtcatatag gaaagactcc ctttgtatgt 60
accgagtgcg gaaaatccta ttcacacaaa tatggcctca ttacccatca gagaattcac 120
acaggagaga aaccttatga gtgcaatgaa tgtggaaaag ccttcaccac aaagtcagta 180
ctcaatgtac atcaaagaac gcatacagga gagaggccgt atggatgcag tgattgtgag 240
aaagccttct cccacttatc aaaccttggtc aaacataaga aaatgcacac aagaganatg 300
ggtagaatca gtcaagttga aaactcctgt aatngagagt cacagctcct tccttataag 360
tgaactcatg cagaagaaaa ccctactagt gccgtgacta tggaaaa 407

<210> 4275
<211> 538
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (2)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (54)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (128)
<223> n equals a,t,g, or c

<400> 4275
gntcgaaant aaccctcact aaaggggaaca aaagctggag ctccaccgcg gtgncggccg 60

3912

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ctctagaact agtggatccc ccgggctgca ggaattcggc acgaggtaag tggcgcgatt 120
cgggcagncc ccgatggaac ctccctgggtcc tgtgagggta cacagggaca agagaagatg 180
atgatgatgg gaccaaagga agaggaacag tcttgtgagt atgagaccag gctacctggg 240
aaccactcta ccagtcaaga gatcttccgc caacgcttca ggcattctccg ctaccaggag 300
actcctggtc cccgggagggc cttgagccaa ctacgagtac tctgctgtga gtggctgagg 360
ccagagaaac acacgaagga gcagatcctg gagttcctgg tgctggaaca attccttgacc 420
atcctgcctg aggagctcca atcctgggtg cggggacatc accctaagag tggagaggag 480
gctgtgactg tgctggagga tttagagaaa ggacttgaac cagagccgca gtcccagg 538

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<210> 4276

<211> 300

<212> DNA

<213> Homo sapiens

<220>

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<222> (59)

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<220>

<221> misc feature

<222> (231)

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<220>

<221> misc feature

<222> (262)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (271)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (275)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (282)

<223> n equals a,t,g, or c

<400> 4276

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gcaggggaaa aaccctatgt gtgtgatagg tgtgggaagg ccttcaggaa acagctcang 60
cctcacagtg cataaaaagga tccacacagg tgaaacccca ctatgaatgt gatgagtgtg 120
ggaaggcata catctcacac tcaagtctta ttcaatcata aaagtgtcca ccaggggaaa 180
gcagccctat tattgtttgaa ttgttgggaa atccttccaa ttatgaatca ntcccttgaa 240
ccagcacaaa agggatcccc cnctgggaaa naaanccttc cnaatttttaa gaagtttggg 300

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3913

<210> 4277
 <211> 405
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (335)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (347)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (377)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (383)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (402)
 <223> n equals a,t,g, or c

<400> 4277
 gccagggcct gagggggagg tttcctgaga actccggccc caggctggcc tgagctgccg 60
 ggcagaggcc tgtgtggcga acaggcattg ccgggcctgc agctcagagg gtcactggga 120
 ctgagggcga tctgtggcct gaaaagcaaa tgcacagtta gtgcagctcc tgaccaggcc 180
 ttcagggtgg acagaggag gatcgggtcat ggcagccaca cctgggcctg gccttgctcc 240
 gggacctgcc agaggagctg gcctggctct gtgcctgcct gcctccagga gcaggacggt 300
 ggctgggagg gtagtgactg gggacacagg tgcangtgtt agtgcangac cggaagggtg 360
 aggtggcctg gtcctcnggg ctncctggcct gggctggctg angca 405

<210> 4278
 <211> 108
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (10)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE

3914

<222> (91)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4278

Asn Lys Lys Lys Asp Asn His Leu Leu Xaa Pro Val Gln Glu Asn Ala
 1 5 10 15

Asn Ser Gly Tyr Tyr Glu Ala His Pro Val Thr Asn Gly Ile Glu Glu
 20 25 30

Pro Leu Glu Glu Ser Ser His Glu Pro Glu Pro Glu Pro Glu Ser Glu
 35 40 45

Thr Lys Thr Glu Glu Leu Lys Pro Gln Val Glu Glu Lys Asn Leu Glu
 50 55 60

Glu Leu Glu Glu Lys Ser Thr Thr Pro Pro Pro Ala Glu Pro Val Ser
 65 70 75 80

Leu Pro Gln Glu Pro Pro Lys Pro Arg Val Xaa Ala Lys Pro Glu Val
 85 90 95

Gln Ser Gln Pro Pro Arg Val Arg Gly Thr Thr Thr
 100 105

<210> 4279

<211> 59

<212> PRT

<213> Homo sapiens

<400> 4279

Gly Phe Pro Val Leu Phe His Ser Ala Phe Met Ser Gln Leu Pro Leu
 1 5 10 15

Ile Pro Ser Lys Leu Ser Gln Val Glu Trp Pro Asn Pro Gly Met Met
 20 25 30

Tyr Tyr Phe Leu Gln Ser Cys Asp Cys Leu Gly Gly Pro Phe Ala Asn
 35 40 45

Phe Pro Arg Ala His Val Cys Leu Val Val Lys
 50 55

<210> 4280

<211> 147

<212> PRT

<213> Homo sapiens

3915

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (93)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (135)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4280

Arg	Glu	Phe	Asp	Gly	Lys	Pro	Gly	Leu	Ala	Gly	Leu	Ala	Thr	Pro	Pro
1				5				10						15	

Pro	Pro	Pro	Pro	His	Gln	Arg	His	Leu	His	Leu	His	Cys	Pro	Ala	Lys
			20					25					30		

Leu	Arg	Leu	Leu	Pro	Leu	Gln	Arg	Gln	Leu	Ala	Ser	Arg	His	Arg	Trp
		35					40					45			

Thr	Pro	Gly	Ser	Xaa	Ser	Asp	Val	Ala	Arg	Leu	Ser	Gly	Lys	Ser	Val
	50					55					60				

Leu	Pro	Leu	Pro	Ile	Ser	Met	Pro	Ser	Pro	Ser	Val	Ser	Pro	Glu	Ser
65					70					75				80	

Ala	Val	Tyr	Leu	Ile	Gly	Pro	Val	Met	Leu	Thr	Phe	Xaa	Ala	Thr	Ala
				85					90					95	

Phe	Ser	Ser	Lys	Glu	Phe	Ser	Ser	His	His	Gly	Val	Ser	Gly	Pro	Leu
			100					105					110		

Ala	Ser	Trp	Ser	Lys	Val	Gly	Leu	Gly	Gly	Arg	Tyr	Gly	Ser	Gly	Met
		115					120					125			

Cys	Tyr	Arg	Ser	Tyr	Gln	Xaa	Trp	Gly	Pro	Leu	Ser	Val	Ser	Gly	Ser
	130					135					140				

Glu	Arg	Val
145		

<210> 4281

<211> 53

3916

<212> PRT

<213> Homo sapiens

<400> 4281

Pro Leu Trp Lys Thr Val Tyr Lys Thr Lys His Thr Val Phe Asn Ser
 1 5 10 15

Ile Gly Ser Ile Ile Ile Val Tyr Tyr Arg Xaa Pro Leu Trp Lys Thr
 20 25 30

Val Tyr Lys Thr Lys His Thr Val Phe Asn Ser Ile Gly Ser Ile Ile
 35 40 45

Ile Val Tyr Tyr Arg
 50

<210> 4282

<211> 45

<212> PRT

<213> Homo sapiens

<400> 4282

Ala Leu Ile Phe His Trp Gly Ser Ala Ile Thr Lys Asn Ser Ser Asp
 1 5 10 15

Ile Phe Gln Leu Pro Lys Trp Pro Gly Thr Phe Cys Phe Tyr Glu Asn
 20 25 30

Arg Phe Ile Leu Tyr Phe Pro Val Cys Leu Leu Cys Leu
 35 40 45

<210> 4283

<211> 58

<212> PRT

<213> Homo sapiens

<400> 4283

Ile Ala Ser Gly Arg Pro Phe Phe Phe Leu Ile Tyr Met Asn Leu Gln
 1 5 10 15

Ile Ile Tyr Ile Asn Leu Leu Leu Cys Gly Asp Phe Gly Gln Glu Asp
 20 25 30

Cys Leu Arg Pro Gly Ile Gln Asp Gln Pro Gly Lys Gln Ser Glu Thr
 35 40 45

Leu Ser Leu Gln Lys Ile Lys Thr Lys Ile

3917

50

55

<210> 4284

<211> 65

<212> PRT

<213> Homo sapiens

<400> 4284

Val Phe Gln His Ser His Cys Thr Ser Ala Gly Asn Leu Ser Ile Leu

1

5

10

15

Tyr Arg Gln Ser Glu Leu Lys Ser Leu Met Ser Arg Asp Tyr Gly Leu

20

25

30

Asn Lys Leu Val Cys Pro Ile Gly Gly Lys Lys Pro Arg Asn His Leu

35

40

45

Leu Lys Arg Met Ile Cys His Ile Pro Leu Asp Phe His Phe Ala Leu

50

55

60

Tyr

65

<210> 4285

<211> 94

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4285

His Arg Ile His Phe Thr Tyr Leu Thr Ser Thr Ile Ser Ser Asp Thr

1

5

10

15

Phe Ser Met Lys Gln Thr Ile Ala Ile Phe Lys Ile Met Asn Leu Ser

20

25

30

Ile Ile Leu Pro Asn Ser Phe Xaa His Leu Cys Asn Phe Ser Leu Phe

35

40

45

Leu Leu Pro Leu Pro Val Pro Ser Gln Pro Leu Ile Cys Ser Gly Asn

50

55

60

Tyr Gln Ser Ser Phe Cys His Tyr Arg Leu Ile Cys Ile Phe Lys Glu

Ile Tyr Ile His Gly Thr Ile His His Leu Cys Phe Val Val

65 70 75 80

85 90

<400> 4286

Ala	Glu	Val	Leu	Leu	Glu	Ala	Ile	Arg	Lys	Gly	Ile	Gln	Leu	Arg	Lys
1				5					10					15	
Val	Glu	Glu	Gln	Arg	Glu	Gln	Glu	Ala	Lys	His	Glu	Arg	Ile	Glu	Asn
			20					25					30		
Asp	Val	Ala	Thr	Ile	Leu	Ser	Arg	Arg	Ile	Ala	Val	Glu	Tyr	Ser	Asp
		35					40					45			
Ser	Glu	Asp	Asp	Ser	Glu	Phe	Asp	Glu	Val	Asp	Trp	Leu	Glu		
	50					55					60				

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<220>
<221> SITE
<222> (18)
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 4287
Cys Arg Leu Leu Arg Arg Thr Xaa Lys Leu Gly Phe Ser Gly Arg Met
 1             5             10             15
Thr Xaa Leu Arg Asp Pro Leu Gln Ala Arg Thr Lys Phe
          20             25
```

3919

<210> 4288

<211> 129

<212> PRT

<213> Homo sapiens

<400> 4288

Phe Leu Lys Glu Gly Ser Thr Pro Val Ser Asn Val Tyr Val Ser Met
 1 5 10 15

Cys Val Cys Ala Ile His Met Tyr Ser His Glu Asp Arg His Gly Gln
 20 25 30

Val Leu Leu Glu Glu His Ser Ser Val Thr Ser Arg Ala Thr Gly Pro
 35 40 45

Cys Arg Ala Val Val Tyr Ile Val Gln Leu Trp Arg Trp Asn Ser Ile
 50 55 60

Phe Thr Leu Phe Tyr Gly Ala Phe Arg Val Pro Gly Phe His Leu Arg
 65 70 75 80

Leu Ser Val Trp Met Ala Val Phe Arg Pro Pro Leu Thr Ser Leu Pro
 85 90 95

Ser Ile Leu Tyr Phe Gly Gly Leu Leu Ser Cys Tyr Lys Thr Phe Tyr
 100 105 110

Gln Val Lys His Arg Tyr His Leu Cys Phe His Ser His Trp Cys Lys
 115 120 125

Tyr

<210> 4289

<211> 345

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (156)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (186)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

3920

<221> SITE

<222> (209)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (288)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (301)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4289

Glu	Ser	Asp	Gly	Met	Ala	Leu	Ile	Thr	Leu	Arg	Lys	Asn	Leu	Tyr	Arg
1				5					10					15	

Leu	Ser	Asp	Phe	Gln	Met	His	Arg	Ala	Leu	Ala	Ala	Leu	Lys	Asn	Lys
			20					25					30		

Pro	Leu	Asn	His	Val	His	Lys	Val	Val	Lys	Glu	Arg	Leu	Cys	Pro	Trp
		35					40					45			

Leu	Cys	Ser	Arg	Gln	Pro	Glu	Pro	Phe	Gly	Val	Arg	Phe	His	His	Ala
	50					55					60				

His	Cys	Lys	Lys	Phe	His	Ser	Lys	Asn	Gly	Asn	Asp	Leu	His	Pro	Leu
65					70					75					80

Gly	Gly	Pro	Val	Phe	Ser	Gln	Val	Ser	Asp	Cys	Asp	Arg	Leu	Glu	Gln
				85					90					95	

Asn	Val	Lys	Asn	Glu	Glu	Ser	Gln	Met	Phe	Tyr	Arg	Arg	Leu	Ser	Asn
		100						105					110		

Leu	Thr	Ser	Ser	Glu	Glu	Val	Leu	Ser	Phe	Ile	Ser	Thr	Met	Glu	Thr
		115					120					125			

Leu	Pro	Asp	Thr	Met	Ala	Ala	Gly	Ala	Leu	Gln	Arg	Ile	Cys	Glu	Val
	130					135					140				

Glu	Lys	Lys	Asp	Gly	Asp	Gln	Gly	Leu	Pro	Lys	Xaa	Ile	Leu	Glu	Asn
145					150					155					160

Ser	Ile	Phe	Gln	Ala	Leu	Cys	Phe	Gln	Phe	Glu	Lys	Glu	Pro	Ser	Gln
			165						170					175	

Leu	Ser	Asn	Thr	Ser	Leu	Val	Thr	Ala	Xaa	Gln	Ala	Leu	Ile	Leu	Leu
			180					185					190		

3921

His Val Asp Pro Gln Ser Ser Leu Leu Leu Asn Leu Val Ala Glu Cys
 195 200 205

Xaa Asn Arg Leu Arg Lys Gly Gly Met Glu Val Arg Asn Leu Cys Ile
 210 215 220

Leu Gly Glu Ser Leu Ile Thr Leu His Ser Ser Gly Cys Val Thr Leu
 225 230 235 240

Glu Leu Ile Ile Asn Gln Leu Gln Gly Glu Lys Leu Glu Thr Phe Thr
 245 250 255

Pro Glu Asp Ile Val Ala Leu Tyr Arg Ile Leu Gln Ala Cys Thr Glu
 260 265 270

Lys Val Asp Glu His Gln Thr Phe Leu Asn Lys Ile Asn Asn Phe Xaa
 275 280 285

Leu Ser Ile Val Ser Asn Leu Ser Pro Lys Leu Ile Xaa Gln Met Leu
 290 295 300

Thr Ala Leu Val Val Leu Asp Gln Ser Gln Ala Phe Pro Leu Ile Ile
 305 310 315 320

Lys Leu Gly Lys Ile Cys Arg Glu Ala Cys Pro Thr Phe His Leu Thr
 325 330 335

Arg Ser Leu Gly Glu Ser Phe Glu Ala
 340 345

<210> 4290

<211> 82

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4290

Glu Ser Pro Phe His Thr Val Glu Arg Cys Arg Cys Gly Lys Pro Gln
 1 5 10 15

3922

Arg Trp Leu Pro Ile Leu Asn Pro Phe Ile Ser His Leu Ser Phe Phe
 20 25 30
 Ser Pro Phe Cys Pro Asp Val Ala Met Val Gly Trp Val Arg Pro Glu
 35 40 45
 Glu Thr Ala Ser Xaa Arg Gly Ser Ser Arg Ser Gly Gly Ser Ala Gly
 50 55 60
 Ile Gly Ala His Arg Ser Glu Glu Trp Pro Met Xaa Leu Pro Ser Lys
 65 70 75 80
 Cys Ala

<210> 4291

<211> 72

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4291

Leu Ser Ile Cys Ile Ile Asn Ile Ile Met Met Phe Phe Ser Cys Ser
 1 5 10 15

Phe Gln Gly Leu Ser His Leu Lys Lys Leu Leu Leu Thr Lys Leu Leu
 20 25 30

Thr Leu Phe Pro Leu Met Ile Gln Val Ser Val Pro Ala Leu Tyr Val
 35 40 45

Asn Tyr Gln Asn Ser Pro Ala Ser Glu His Asp Ile Tyr Asn Arg Arg
 50 55 60

Tyr Xaa Asn Lys Met Xaa Xaa Leu

3923

65

70

<210> 4292

<211> 40

<212> PRT

<213> Homo sapiens

<400> 4292

His Ile Asn Asn Ile Lys Met Ala Ile Pro Phe Tyr Gly Val Thr Leu

1

5

10

15

Phe Leu Gly Ile Val Ser Lys Glu Ile Ile Leu Asn Ile Gly Lys Lys

20

25

30

Tyr Phe Tyr Asn Leu Gln Ser Val

35

40

<210> 4293

<211> 58

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4293

Ala Val Ala Leu Met Ala Pro Pro Ser Gly Met Ile Arg Val Thr Ala

1

5

10

15

Xaa Arg Gly Ser Phe Glu Trp Arg Pro Ala Gly Gly Asp Pro Asn Arg

20

25

30

Arg Ala Gly Arg Arg Pro Phe Ser Arg Glu Gly Pro Ile Trp Arg Lys

35

40

45

Ser Ser Arg Leu Val Lys Leu Gly Gly Arg

50

55

<210> 4294

<211> 39

<212> PRT

<213> Homo sapiens

3924

<400> 4294

Pro Tyr Arg Ser Ser Lys Asn Ser Met Pro Phe Arg Leu Ala His Tyr
 1 5 10 15

Gln Lys His His Glu Ser Ile Leu Lys Thr Asn Tyr Leu Leu Gln Cys
 20 25 30

Ile Ser Leu Val Leu Cys Val
 35

<210> 4295

<211> 104

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4295

Gly His Ile Phe Ser Leu Lys Ser Asp Ile Leu Ser Leu Leu Leu Ser
 1 5 10 15

His Tyr Cys His Thr Phe Val Phe Phe Val Val Ile Val Trp Val Glu
 20 25 30

Gln Leu Gln Glu Thr Leu Lys Pro Leu Asp Ile Lys Glu Ile Cys Leu
 35 40 45

Leu Ile Phe Lys Ser Phe Leu Ser Lys Ser Trp Asp Thr His Gly Ser
 50 55 60

Cys Leu Gly Asn Phe Pro Cys Cys Tyr Arg Ala Ala Thr Lys Trp Glu
 65 70 75 80

Leu Thr Arg Arg Ala Val Tyr Thr Val Ser Leu Ala Thr Val Ala Xaa
 85 90 95

Gly Ser Gly Ile Trp Leu Thr Gly
 100

<210> 4296

<211> 74

<212> PRT

<213> Homo sapiens

3925

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4296

Glu Val Asp Leu Gly Val Ser Trp Arg Val Ser Leu Leu Val Ala Gly
 1 5 10 15

Gly Arg Asp Ser Trp Leu Trp Gly Trp Arg Glu Val Val Gly Arg Lys
 20 25 30

Arg Gly Cys Val Pro Ala Thr Arg Ile Cys Ile Pro Glu Pro Lys Pro
 35 40 45

Gly Gly Ile Ser Leu Arg Gln His His Pro Arg Glu Ile Cys His Asn
 50 55 60

Leu Arg Phe Thr Ala Xaa Asp Ala Glu Ala
 65 70

<210> 4297

<211> 53

<212> PRT

<213> Homo sapiens

<400> 4297

Gln Val Gln Ala Ala Glu Gln Pro Lys Pro Leu Leu Cys Leu Trp Ser
 1 5 10 15

Arg His Ser Leu Phe Leu Cys Phe Leu Asp Glu Leu Ala Phe Thr Leu
 20 25 30

Leu Tyr Gly Leu Ala Pro Asn Ser Leu Leu Arg Glu Ile Gln Glu Pro
 35 40 45

Ser Phe Gly Ser Ala
 50

<210> 4298

<211> 55

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

3926

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4298

Ser	Asn	Val	Pro	Lys	Thr	Ser	Lys	Gln	Asn	Leu	Ile	Pro	Xaa	Lys	Tyr
1				5				10						15	

Ala	Leu	Phe	Leu	Leu	Ile	Cys	Phe	Val	Leu	Gln	Leu	Arg	Ser	Lys	Ser
			20					25					30		

Leu	Val	Lys	Leu	Tyr	Tyr	Leu	Pro	Lys	Tyr	Lys	Arg	Xaa	Leu	Glu	Leu
		35					40					45			

His	Cys	Asn	Ile	Asp	Val	Leu
	50				55	

<210> 4299

<211> 41

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4299

Met	Gly	Gly	Leu	Ile	Ala	Leu	Ala	Arg	Glu	Ala	Ala	Gly	Lys	Glu	Asp
1				5				10					15		

Arg	Trp	His	Pro	Glu	Thr	Ala	Gln	Xaa	Trp	Asn	Arg	Thr	Pro	Xaa	Val
			20				25					30			

Gln	Gly	Leu	Lys	Phe	His	Gly	Leu	Val
		35				40		

<210> 4300

<211> 79

3927

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4300

Gln	Ala	Ala	Ala	Arg	Gly	His	Pro	His	Pro	Ala	Phe	Xaa	Arg	Gln	Phe
1				5					10					15	

Asp	Arg	Gly	Glu	Arg	Gly	Pro	Ala	Gly	Leu	Leu	Leu	Cys	Trp	Ala	Trp
			20					25					30		

Gln	Pro	Pro	Pro	Glu	Lys	Met	Glu	Phe	Arg	Thr	Ala	Ser	Ile	Arg	Leu
			35				40					45			

Phe	Gly	His	Leu	Thr	Arg	Ser	Ala	Thr	Glu	Thr	Val	Arg	Thr	Ser	Ser
	50					55					60				

Trp	Thr	Lys	Trp	Trp	Ala	Gly	Trp	Arg	Pro	Ala	Ala	Ala	Pro	Xaa
65						70				75				

<210> 4301

<211> 67

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

3928

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4301

Thr Ser Ser Leu Leu Gln Ala His Ser Leu Ile Glu Ser Leu Val Ile
 1 5 10 15

Asn Leu Leu Asn Ala Xaa Xaa Ala Ala Asn Leu Gly Lys Leu Leu Ser
 20 25 30

Trp Trp Gly His Cys Trp Ile Asn Asn Val Arg Tyr Glu Leu Ser Asp
 35 40 45

Ala Leu Thr Trp Ile Leu His Phe Lys Val Xaa Xaa Gly Ala Tyr Gly
 50 55 60

Gln Pro Thr
 65

<210> 4302

<211> 134

<212> PRT

<213> Homo sapiens

<400> 4302

Pro Asp Gln Pro Tyr Glu Trp Leu Ser Tyr Lys Gln Val Ala Glu Leu
 1 5 10 15

Ser Glu Cys Ile Gly Ser Ala Leu Ile Gln Lys Gly Phe Lys Thr Ala
 20 25 30

Pro Asp Gln Phe Ile Gly Ile Phe Ala Gln Asn Arg Pro Glu Trp Val
 35 40 45

Ile Ile Glu Gln Gly Cys Phe Ala Tyr Ser Met Val Ile Val Pro Leu
 50 55 60

Tyr Asp Thr Leu Gly Asn Glu Ala Ile Thr Tyr Ile Val Asn Lys Ala
 65 70 75 80

Glu Leu Ser Leu Val Phe Val Asp Lys Pro Glu Lys Ala Lys Leu Leu
 85 90 95

Leu Glu Gly Val Glu Asn Lys Leu Ile Pro Gly Leu Lys Ile Ile Val
 100 105 110

Val Met Asp Ala Tyr Gly Ser Asn Trp Trp Asn Glu Ala Arg Gly Val

3929

115 120 125
 Gly Trp Lys Ser Pro Ala
 130

<210> 4303
 <211> 355
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (5)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (347)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 4303
 Cys Ile Ser Leu Xaa Pro Asn Ile Ser Leu Arg His Leu Trp Pro Gln
 1 5 10 15
 Arg Met Cys Pro Ser Gly Val Val Met Ile Thr Trp Gly Met Ser Arg
 20 25 30
 His Pro Gln Val Leu Gln Ala Thr Gln Glu Thr Leu Gln Arg His Gly
 35 40 45
 Ala Gly Ala Gly Gly Thr Arg Asn Ile Ser Gly Thr Ser Lys Phe His
 50 55 60
 Val Glu Leu Glu Gln Glu Leu Ala Glu Leu His Gln Lys Asp Ser Ala
 65 70 75 80
 Leu Leu Phe Ser Ser Cys Phe Val Ala Asn Asp Ser Thr Leu Phe Thr
 85 90 95
 Leu Ala Lys Ile Leu Pro Gly Cys Glu Ile Tyr Ser Asp Ala Gly Asn
 100 105 110
 His Ala Ser Met Ile Gln Gly Ile Arg Asn Ser Gly Ala Ala Lys Phe
 115 120 125
 Val Phe Arg His Asn Asp Pro Asp His Leu Lys Lys Leu Leu Glu Lys
 130 135 140
 Ser Asn Pro Lys Ile Pro Lys Ile Val Ala Phe Glu Thr Val His Ser

3930

145		150		155		160
Met Asp Gly Ala	Ile Cys Pro Leu Glu Glu Leu Cys Asp Val Ser His					
	165		170		175	
Gln Tyr Gly Ala	Leu Thr Phe Val Asp Glu Val His Ala Val Gly Leu					
	180		185		190	
Tyr Gly Ser Arg	Gly Ala Gly Ile Gly Glu Arg Asp Gly Ile Met His					
	195		200		205	
Lys Ile Asp Ile	Ile Ser Gly Thr Leu Gly Lys Ala Phe Gly Cys Val					
	210		215		220	
Gly Gly Tyr Ile	Ala Ser Thr Arg Asp Leu Val Asp Met Val Arg Ser					
	225		230		235	240
Tyr Ala Ala Gly	Phe Ile Phe Thr Thr Ser Leu Pro Pro Met Val Leu					
	245		250		255	
Ser Gly Ala Leu	Glu Ser Val Arg Leu Leu Lys Gly Glu Glu Gly Gln					
	260		265		270	
Ala Leu Arg Arg	Ala His Gln Arg Asn Val Lys His Met Arg His Tyr					
	275		280		285	
Ser Trp Thr Gly	Ala Phe Leu Ser Ser Pro Ala Pro Ala Thr Ser Ser					
	290		295		300	
Pro Ser Gly Trp	Ala Met Gln His Ser Thr Ala Ser Ser Val Ile Ser					
	305		310		315	320
Cys Ser Pro Ser	Met Ala Ser Met Cys Arg Pro Ser Thr Thr Gln Leu					
	325		330		335	
Ser Pro Gly Val	Lys Ser Ser Cys Ala Trp Xaa Pro Pro Pro Thr Thr					
	340		345		350	
Ala Leu Arg						
	355					

<210> 4304

<211> 161

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (91)

3931

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (136)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (138)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (140)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4304

Thr	Lys	Glu	Lys	Lys	Asn	Arg	Gln	Gly	Asn	Ser	Leu	Asp	Met	Ala	Ser
1				5					10					15	

Glu	Ile	His	Met	Thr	Gly	Pro	Met	Cys	Leu	Ile	Glu	Asn	Thr	Asn	Gly
			20					25					30		

Arg	Leu	Met	Ala	Asn	Pro	Glu	Ala	Leu	Lys	Ile	Leu	Ser	Ala	Ile	Thr
		35					40					45			

Gln	Pro	Met	Val	Val	Val	Ala	Ile	Val	Gly	Leu	Tyr	Arg	Thr	Gly	Lys
	50					55					60				

Ser	Tyr	Leu	Met	Asn	Lys	Leu	Ala	Gly	Lys	Lys	Lys	Gly	Phe	Ser	Leu
65					70					75					80

Gly	Ser	Thr	Val	Gln	Ser	His	Thr	Lys	Gly	Xaa	Trp	Met	Trp	Cys	Val
				85					90					95	

Pro	His	Pro	Lys	Lys	Pro	Gly	His	Ile	Leu	Val	Leu	Leu	Asp	Thr	Glu
			100					105					110		

Gly	Leu	Gly	Asp	Val	Glu	Lys	Gly	Asp	Asn	Gln	Asn	Asp	Ser	Trp	Ile
		115					120					125			

Phe	Ala	Leu	Ala	Val	Leu	Leu	Xaa	Ser	Xaa	Phe	Xaa	Tyr	Asn	Ser	Ile
	130						135					140			

Gly	Thr	Ile	Asn	Gln	Gln	Ala	Met	Asp	Gln	Leu	His	Tyr	Gln	Ser	Arg
145					150					155					160

Ser

3932

<210> 4305

<211> 109

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (97)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4305

Val	Leu	His	Ser	Val	Leu	Gly	Gly	Trp	Leu	Gly	Pro	Gly	Ala	Val	Ala
1				5					10					15	

Ser	Gln	Gly	Ala	Ala	Ser	Pro	Trp	Gln	Ala	Ser	Leu	Pro	Trp	Ala	Ala
			20					25						30	

Leu	Pro	Gln	Thr	Pro	Asp	His	Pro	Leu	Gly	Pro	Val	Pro	His	Gln	Ser
			35					40					45		

Pro	Ser	Ser	Cys	Leu	Trp	Gly	Ser	His	His	Gly	Val	Arg	Ala	Val	His
			50				55				60				

Ser	Ala	Ser	Gln	Cys	Val	Ser	Pro	Gly	Thr	Trp	Glu	Gly	Arg	Glu	His
	65				70					75					80

Trp	Gly	Leu	Gly	Pro	Gln	Leu	Arg	Gly	Cys	Leu	Ala	Leu	Pro	Ser	Asp
				85					90						95

Xaa	Ala	Tyr	Pro	Glu	Phe	Gly	Gly	Tyr	Phe	Pro	Leu	Ala
			100					105				

<210> 4306

<211> 36

<212> PRT

<213> Homo sapiens

<400> 4306

Leu	Phe	Leu	Ser	Ser	Pro	Gly	Leu	Glu	Arg	Val	Thr	Met	Leu	Phe	Leu
1				5					10					15	

Gly	Leu	His	Asn	Val	Arg	Gln	Thr	Ser	Met	Phe	Pro	Arg	Asp	Pro	Lys
			20					25					30		

Arg	Leu	Thr	Pro
			35

3933

<210> 4307

<211> 89

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (88)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4307

Gly	Gln	Pro	Glu	Val	Thr	Phe	Ile	Ala	Ile	Leu	Val	Leu	Val	Ser	Phe
1				5					10					15	

Phe	Thr	Ala	Ala	Cys	Phe	Ile	Ile	Lys	Val	Phe	Ile	Thr	Cys	Ile	Leu
		20						25					30		

Cys	Arg	Pro	Pro	Val	Ser	Ser	Cys	Asp	Leu	Glu	Cys	Leu	Thr	Ser	Trp
		35					40					45			

Glu	Cys	Ser	Pro	Val	Gly	Leu	Ser	Leu	Ile	Leu	Leu	His	Pro	Leu	Ile
	50					55					60				

Gln	Asp	Gly	Ser	Phe	Ser	Gly	Phe	Gln	Thr	Thr	Pro	Gly	His	Val	Phe
65					70					75					80

Pro	Pro	Pro	Phe	Leu	Gln	Gln	Xaa	Pro
				85				

<210> 4308

<211> 69

<212> PRT

<213> Homo sapiens

<400> 4308

Met	Phe	Leu	Ile	Val	Phe	Cys	Phe	Leu	Gln	Ser	Leu	Ser	Ala	Met	Pro
1				5					10					15	

Ile	Val	Leu	Ile	Phe	Tyr	Arg	Ser	Ser	Leu	Lys	Ile	Leu	Asn	Arg	Gly
		20						25					30		

Ile	Gly	Ser	Gly	Gln	Ser	Glu	Trp	Leu	Glu	Phe	Trp	Leu	Ser	Lys	Lys
		35					40					45			

Asn	Phe	Ile	Leu	His	Lys	His	Val	Val	Arg	Ser	Phe	Cys	Ala	Tyr	Ala
	50					55					60				

3934

Ala Trp Ile Gly Cys
65

<210> 4309

<211> 74

<212> PRT

<213> Homo sapiens

<400> 4309

Ser Phe Leu Phe His Tyr Phe Cys Tyr Phe Lys Cys Ile Ser Ser Gly
1 5 10 15

Ile Leu Phe Gly Ala Ile Pro Thr Lys Ser Gly Thr Arg Met Cys Leu
20 25 30

Arg Ala Val Thr Phe Gln His Asp Gly Phe Gly Leu Val Trp Phe Cys
35 40 45

Val Leu Phe Ile Cys Ser Phe Phe Cys Cys Asn Arg Lys Trp Leu Gly
50 55 60

Ser Leu Arg Trp Tyr Val Thr Asn Ser Phe
65 70

<210> 4310

<211> 171

<212> PRT

<213> Homo sapiens

<400> 4310

Met Leu Ser Pro Pro Arg Thr Thr Thr Gly Ser Met Thr Ser Trp Gly
1 5 10 15

Thr Cys Gly Ser Gly Gln His His Arg Thr Arg Leu Leu Ser Arg Thr
20 25 30

Cys Ala Ser Ser Gly Gly His Pro Gly Ser Thr Gln Leu Met Ala Leu
35 40 45

Pro Ile Thr Gly Pro Gly Ser Pro Pro Gly Trp Ala Thr Leu Gln Ile
50 55 60

Gln Pro Gln Thr Thr Ser Val Ser Ala Val Leu Gln Thr Gln Ala Gly
65 70 75 80

Arg Gln Gly Ser Cys Lys Gln Pro Gly Gly Asp Lys Glu Lys Ser Leu
85 90 95

3935

Leu Gly Ser Leu Ser Phe Pro Gly His Val Ala Asn Ser Ala Ile Pro
 100 105 110
 Ser Ser Arg Ala Ser Ala Ser Gly Lys Asn Phe Pro Phe Pro Val Ser
 115 120 125
 His Pro Ser Val Ala Gly Ala Ser His Gln Gly Arg Arg Gly Leu Ser
 130 135 140
 Leu Leu Cys Phe Gly Glu Gly Ala Gln Cys Val Leu Thr Met Ala Gly
 145 150 155 160
 Gly Gln Val Phe Leu Leu Glu Ala Lys Tyr Tyr
 165 170

<210> 4311

<211> 44

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4311

Ser Ser His Leu Ser Leu Asn Glu Ala Val Val Ile Ser Gly Arg Lys
 1 5 10 15
 Leu Ala Gln Gln Ile Lys Gln Glu Val Arg Gln Xaa Val Glu Asp Gly
 20 25 30
 Val Gly Ser Arg Gln Gln Thr Ala Thr Pro Glu Cys
 35 40

<210> 4312

<211> 74

<212> PRT

<213> Homo sapiens

<400> 4312

Arg Phe Lys Ser Arg Leu Ser Ile Leu Leu Ser Ile Leu Phe His Phe
 1 5 10 15
 Lys Lys Lys Gly Phe Gly Ile Cys Gln Pro Leu Leu Ser Leu Leu Tyr
 20 25 30

3936

Lys Ala Thr Ala Leu Val Leu Asp Ile Met Pro Gly Leu Ile Ser Gln
 35 40 45

Thr Ser Gly Leu Asn Gln Val His Ala Trp Leu Leu Lys Lys Leu Met
 50 55 60

Leu Ile Pro Lys Ser Ala Gln Ser Gln Pro
 65 70

<210> 4313

<211> 103

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (92)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4313

Ala Gln Val Asp Phe Arg Arg Thr Pro Ile Asp Ser Thr Ala Ala Pro
 1 5 10 15

Gly Ala Gln Thr Pro Ala Ala Arg Ser Lys Ala Arg Ser Cys Cys Ser
 20 25 30

His Val Gly Pro Gln Pro Pro His Ser Gly Pro Ala His Gly Xaa Pro
 35 40 45

Pro Ala Ser Cys Gln Gln Gly Leu Gly Asn Phe Ser Pro Gly Cys Arg
 50 55 60

Ala Leu Ser Arg Trp Pro Cys Ser Trp Ser Ser Leu Gln Ser Pro Leu
 65 70 75 80

Gln Ser Thr Thr Ser Gly Ala Arg Arg Ser Arg Xaa Trp Glu Ser Trp
 85 90 95

Trp Gly Thr Asp Trp Lys Val
 100

3937

<210> 4314

<211> 126

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (124)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4314

Pro	Arg	Pro	Arg	Gly	Ala	Gly	Ala	Met	Val	Arg	Gly	Arg	Xaa	Phe	Arg
1				5					10					15	

Leu	Ser	Val	Arg	Asp	Val	Arg	Phe	Pro	Thr	Ser	Leu	Gly	Gly	His	Gly
			20					25					30		

Ala	Asp	Ala	Met	His	Thr	Asp	Pro	Asp	Tyr	Ser	Ala	Ala	Tyr	Val	Val
		35					40					45			

Ile	Glu	Thr	Asp	Ala	Glu	Asp	Gly	Ile	Lys	Gly	Cys	Gly	Ile	Thr	Phe
	50					55					60				

Thr	Leu	Gly	Lys	Gly	Thr	Xaa	Val	Val	Val	Cys	Xaa	Val	Asn	Ala	Leu
65					70					75					80

Ala	His	His	Val	Leu	Asn	Lys	Asp	Leu	Lys	Asp	Ile	Val	Gly	Asp	Phe
				85					90					95	

Arg	Gly	Phe	Tyr	Arg	Gln	Leu	Thr	Ser	Asp	Gly	Gln	Leu	Arg	Trp	Ile
			100					105					110		

Gly	Pro	Glu	Lys	Gly	Val	Val	His	Leu	Ala	Thr	Xaa	Pro	Ser
			115				120					125	

3938

<210> 4315

<211> 39

<212> PRT

<213> Homo sapiens

<400> 4315

Trp Ile Lys Asp Leu Asn Val Arg Pro Glu Ser Met Lys Leu Leu Glu
 1 5 10 15

Glu Asn Ile Trp Glu Thr Leu Gln Tyr Pro Gly Leu Gly Glu Asp Phe
 20 25 30

Met Glu Lys Thr Ser Lys Ala
 35

<210> 4316

<211> 84

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4316

Ala Pro Ala Gly Leu Arg Arg Ser Pro Trp Arg Cys Gly Ala Ile Gly
 1 5 10 15

Gly Asp Gly Arg Gly Arg Gly Ala Ser Thr Val Ser His Pro Pro Leu
 20 25 30

Ala Thr Leu Ile Phe Leu Leu His Leu Gly Pro Gly Ala Ser Ser Thr
 35 40 45

Thr Gln Ala Gly Cys Phe Lys Lys Asn Cys Phe Leu Lys Cys Leu Ser
 50 55 60

Leu Lys Glu Ile Ser Leu Thr Leu Glu Val Xaa Gly Ala Ser Ser Gln
 65 70 75 80

Tyr Thr Ser Cys

<210> 4317

<211> 209

3939

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (97)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (104)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4317

Trp	Xaa	Cys	Ile	Leu	Asn	Ile	Leu	Lys	Gly	Tyr	Asn	Phe	Ser	Arg	Glu
1				5					10					15	

Ser	Val	Glu	Ser	Pro	Glu	Gln	Lys	Gly	Leu	Thr	Tyr	His	Arg	Ile	Val
		20						25					30		

Glu	Ala	Phe	Arg	Phe	Ala	Tyr	Ala	Lys	Arg	Thr	Leu	Leu	Gly	Asp	Pro
	35						40					45			

Lys	Phe	Val	Asp	Val	Thr	Glu	Val	Val	Arg	Asn	Met	Thr	Ser	Glu	Phe
	50					55					60				

Phe	Ala	Ala	Gln	Leu	Arg	Ala	Gln	Ile	Ser	Asp	Asp	Thr	Thr	His	Pro
65					70					75					80

Ile	Ser	Tyr	Tyr	Lys	Pro	Glu	Phe	Tyr	Thr	Pro	Asp	Asp	Gly	Gly	Thr
				85					90					95	

Xaa	His	Leu	Ser	Val	Val	Ala	Xaa	Asp	Gly	Ser	Ala	Val	Ser	Ala	Thr
		100						105					110		

Ser	Thr	Ile	Asn	Leu	Tyr	Phe	Gly	Ser	Lys	Val	Arg	Ser	Pro	Val	Ser
		115					120					125			

Gly	Ile	Leu	Phe	Asn	Asn	Glu	Met	Asp	Asp	Phe	Ser	Ser	Pro	Ser	Ile
	130					135					140				

Thr	Asn	Glu	Phe	Gly	Val	Pro	Pro	His	Leu	Pro	Ile	Ser	Ser	Ser	Gln
145					150					155					160

Gly	Ser	Ser	Arg	Ser	Arg	Pro	Cys	Ala	Arg	Arg	Ser	Trp	Trp	Ala	Arg
				165					170					175	

3940

Thr Ala Arg Ser Gly Trp Trp Trp Glu Leu Leu Gly Ala His Arg Ser
 180 185 190

Pro Arg Pro Leu His Trp Pro Ser Ser Thr Thr Ser Gly Ser Ala Met
 195 200 205

Thr

<210> 4318

<211> 47

<212> PRT

<213> Homo sapiens

<400> 4318

Met Phe Asn Glu Leu Glu Asn Asp Ser Trp Val Val Asn Ile Val Asn
 1 5 10 15

Val Asp Glu Leu Phe Ser Phe Ala Glu Ser Ser Tyr Phe Val Gly Gly
 20 25 30

Phe Asn Ser Ala Trp Gln Phe Ala Ala Phe Leu Val Val Leu Leu
 35 40 45

<210> 4319

<211> 297

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (105)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (183)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4319

Pro Leu Pro Pro Gln Leu Gln Thr Pro Pro Arg Ser Asn Ser Val Phe
 1 5 10 15

Ala Val Asn Gln Ala Val Ser Pro Asn Phe Ser Gln Gly Ser Ala Ile
 20 25 30

3941

Ile Ile Ala Ser Pro Val Gln Pro Val Leu Gln Gly Met Val Gly Met
 35 40 45
 Ile Pro Val Ser Val Val Gly Gln Asn Gly Asn Asn Phe Ser Thr Pro
 50 55 60
 Pro Arg Gln Val Leu His Met Pro Leu Thr Ala Pro Val Cys Asn Arg
 65 70 75 80
 Ser Ile Pro Gln Phe Pro Val Pro Pro Lys Ser Gln Lys Ala Gln Gly
 85 90 95
 Leu Arg Asn Lys Pro Cys Ile Gly Xaa Gln Val Asn Asn Leu Val Asp
 100 105 110
 Ser Ser Gly His Ser Val Gly Cys His Ala Gln Lys Thr Glu Val Ser
 115 120 125
 Asp Lys Ser Ile Ala Thr Asp Leu Gly Lys Lys Ser Glu Glu Thr Thr
 130 135 140
 Val Pro Phe Pro Glu Glu Ser Ile Val Pro Ala Ala Lys Pro Cys His
 145 150 155 160
 Arg Arg Val Leu Cys Phe Asp Ser Thr Thr Ala Pro Val Ala Asn Thr
 165 170 175
 Gln Gly Pro Asn His Lys Xaa Val Ser Gln Asn Lys Glu Arg Asn Ala
 180 185 190
 Val Ser Phe Pro Asn Leu Asp Ser Pro Asn Val Ser Ser Thr Leu Lys
 195 200 205
 Pro Pro Ser Asn Asn Ala Ile Lys Arg Glu Lys Glu Lys Pro Pro Leu
 210 215 220
 Pro Lys Ile Leu Ser Lys Ser Glu Ser Ala Ile Ser Arg His Thr Thr
 225 230 235 240
 Ile Arg Glu Thr Gln Ser Glu Lys Lys Val Ser Pro Thr Glu Ile Val
 245 250 255
 Leu Glu Ser Phe His Lys Ala Thr Ala Asn Lys Glu Asn Glu Leu Cys
 260 265 270
 Ser Asp Val Gly Lys Thr Glu Lys Ser Arg Lys Phe Lys Thr Ile Tyr
 275 280 285
 Trp Ala Ala Lys Trp Gly Phe Ala Lys
 290 295

3942

<210> 4320

<211> 131

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4320

Trp	Xaa	Pro	Arg	Ala	Ala	Gly	Ile	Arg	His	Glu	Leu	Glu	Ser	Phe	Ala
1				5				10						15	

Val	Pro	Asn	Leu	Trp	Lys	Ser	Glu	Asp	Ile	Thr	Gln	Ile	Val	Ala	Asn
		20					25					30			

Tyr	Gly	Leu	Ile	Cys	Xaa	Thr	Arg	Ala	Gly	Asn	Asp	Ala	Gln	Lys	Phe
	35						40					45			

Ile	Tyr	Glu	Ser	Asp	Val	Leu	Trp	Lys	His	Arg	Ser	Asn	Ile	His	Val
	50					55					60				

Val	Asn	Glu	Trp	Xaa	Ala	Asn	Asp	Ile	Ser	Ser	Thr	Lys	Ile	Arg	Arg
65					70				75					80	

Ala	Leu	Arg	Arg	Gly	Gln	Ser	Ile	Arg	Tyr	Leu	Val	Pro	Asp	Leu	Val
				85				90						95	

Gln	Glu	Tyr	Ile	Glu	Lys	His	Asn	Leu	Tyr	Ser	Ser	Glu	Ser	Glu	Asp
		100						105					110		

Arg	Asn	Ala	Gly	Val	Ile	Leu	Ala	Pro	Leu	Gln	Arg	Asn	Thr	Ala	Glu
		115					120					125			

Ala	Lys	Thr
		130

3943

<210> 4321

<211> 75

<212> PRT

<213> Homo sapiens

<400> 4321

Asp His Pro Arg Thr Ile Ser Ser Arg Ile Leu Gln Trp Leu Asp Glu
 1 5 10 15

Glu Leu Pro Asp Leu Ser Val Ser Arg Arg Ser Ser His Leu His Trp
 20 25 30

Gly Ile Pro Val Pro Gly Asp Asp Ser Gln Thr Ile Tyr Val Trp Leu
 35 40 45

Asp Ala Leu Val Asn Tyr Leu Thr Val Ile Gly Tyr Pro Asn Ala Glu
 50 55 60

Phe Lys Ser Trp Trp Pro Ala Thr Leu Ile Ser
 65 70 75

<210> 4322

<211> 93

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (89)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4322

Ser Met Trp Gly Lys Glu Arg Ser Asp Cys Tyr Cys Val Cys Val Glu
 1 5 10 15

Lys Glu Asp Ile Arg Asn Ser Ile Leu Ile Cys Thr Lys Lys Asn Cys
 20 25 30

Phe Cys Phe Glu Met Leu Leu Ala Tyr Asn Phe Ser Pro Asn Ser Val
 35 40 45

Leu Thr Glu Thr Cys Ala Val Met Asp Gln Ser Leu Met Asp Leu Gly
 50 55 60

3944

Leu Cys Arg Met Cys Leu Val Asn Asn Met Phe Gly Arg Arg Xaa Ala
 65 70 75 80

Leu Gly Arg Ser His Arg Pro Phe Xaa His Ser Pro Val
 85 90

<210> 4323

<211> 133

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (115)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4323

Pro Ala Gly Pro Gly Gln Lys Pro Asp Pro Gly Lys Leu Pro Ala Ala
 1 5 10 15

Gly Val Leu Arg Ile Xaa Arg Gly Ser Ser Gly Leu Trp Lys Lys Arg
 20 25 30

Arg Ala Thr Asp Phe Gly Arg Gly Arg Ala Gly Leu Ser Ala Ala Met
 35 40 45

Ser Ala Lys Ala Ile Ser Glu Gln Thr Gly Lys Glu Leu Leu Tyr Lys
 50 55 60

Phe Ile Cys Thr Thr Ser Ala Ile Gln Asn Arg Phe Lys Tyr Ala Arg
 65 70 75 80

Val Thr Pro Asp Thr Asp Trp Ala Arg Leu Leu Gln Asp His Pro Trp
 85 90 95

Leu Leu Ser Gln Asn Leu Val Val Lys Pro Asp Gln Leu Asp Gln Thr
 100 105 110

Ser Trp Xaa Asn Leu Val Phe Val Gly Val Gln Pro His Ser Gly Trp
 115 120 125

Gly Gln Val Leu Gly
 130

3945

<210> 4324

<211> 85

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4324

Leu	Glu	Arg	Xaa	Gly	Ala	Gly	Gly	Arg	Asp	Phe	Trp	Val	Pro	Val	Cys
1				5				10					15		

Cys	Arg	Gly	Leu	His	Val	Ile	Ser	Met	Glu	Lys	Ala	Val	Tyr	Ala	Val
			20				25					30			

Thr	Gln	Ser	Leu	Val	Arg	Gly	Gln	Ala	Pro	Gly	Gly	Gly	Gly	Ser	Ser
			35				40					45			

Cys	Gly	Ser	His	Ser	Pro	Arg	Lys	Pro	Pro	Leu	Pro	Ser	Val	Ser	Gln
			50			55				60					

Ile	Asp	Arg	Glu	Ser	Arg	Asp	Ser	Asp	Arg	Gln	Val	Thr	Ser	Gln	Ile
65					70					75					80

Glu	Ser	Ile	Phe	Val
				85

<210> 4325

<211> 88

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (88)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4325

Pro	Pro	Leu	Thr	Leu	Asp	Ser	Asn	Pro	Val	Val	Ile	Leu	Gly	Trp	Asp
1				5				10					15		

Leu	Gly	Ala	Cys	Arg	Trp	Leu	Arg	Ser	Gln	Pro	Leu	Val	Ile	Arg	Ala
			20				25					30			

3946

Thr Ser Leu Ala Leu Gly Ala Leu Ala Pro Ala Glu Pro Leu Val His
35 40 45

Arg Thr Ala Trp Glu Pro Gly Arg Gly Leu Trp Gln Pro Pro Arg Ala
50 55 60

Glu Val Gln Thr Leu Phe Arg Leu Thr Gln Val His Thr Trp Ile Gly
65 70 75 80

Leu Gly Val Glu Ala Trp Phe Xaa
85

<210> 4326

<211> 71

<212> PRT

<213> Homo sapiens

<400> 4326

Val Phe Gln Gly Ile Ser Gln Arg Gln Ser Val Gln Gln Trp Asp Ile
1 5 10 15

Asn Ala Tyr Leu His Phe Pro Thr Ala Ile Tyr Ile Lys Cys Tyr Ser
20 25 30

Ile Gln Arg Met Pro Phe Ile Pro Thr Leu Lys His Arg Ser Leu Ser
35 40 45

Asn Lys Asn Gln Ile Val Cys His Ser Asn Tyr Asn Cys Ser Tyr Phe
50 55 60

Cys Met Val Arg Val Arg Cys
65 70

<210> 4327

<211> 58

<212> PRT

<213> Homo sapiens

<400> 4327

Asn Phe Gly Gln Val Phe Val Tyr Gln Tyr Phe Val Leu Leu Gly Asn
1 5 10 15

Ile Leu Phe Phe Ser Tyr Leu Cys Gln Ile Ile Ile Ile Lys Gly Thr
20 25 30

Ala Glu Asn Ile Pro Cys Phe Tyr Ile Gly Ser His Leu Tyr Leu Gly
35 40 45

3947

Gly Thr Leu Ser Ile Tyr Ile Leu Phe Val
 50 55

<210> 4328

<211> 79

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4328

His Arg Lys Lys His Phe Leu Lys Pro Thr Val Ser Asp Gln Trp Gly
 1 5 10 15

Lys Gln Gln Lys Thr Lys Arg Arg Ile Phe Pro Leu Ile Phe Leu Gln
 20 25 30

Lys Ser Ile Ser Leu Ile Ala His Cys His Lys Phe Cys Leu Val Leu
 35 40 45

Arg Glu Ala Thr Cys Thr Gly Ser Phe Tyr Val Gln Arg Lys Asp Phe
 50 55 60

Thr Ile Lys Lys Ile Asn Leu Ala Arg Xaa Gly Val Ser His Trp
 65 70 75

<210> 4329

<211> 41

<212> PRT

<213> Homo sapiens

<400> 4329

Pro Leu Gly His His Gln Val Pro Leu Thr Thr Lys Leu Ser Val Lys
 1 5 10 15

Lys Thr Glu Asp Gly Asn Thr Leu Val Phe Ile Val Asn Val Lys Ala
 20 25 30

Asn Lys His Arg Ile Lys Gln Ala Ser
 35 40

3948

<210> 4330

<211> 120

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (44)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4330

Ile	Arg	His	Arg	His	Gly	Cys	Pro	Ser	Val	Leu	Arg	Met	Gly	Ser	Xaa
1				5					10					15	

Gln	Val	Gly	Xaa	Xaa	Gly	Cys	Trp	Gln	Asn	Arg	Arg	Ile	Pro	Ser	Phe
			20					25					30		

Ala	Glu	Trp	Gly	Thr	Cys	Ser	Glu	Pro	Ala	Gln	Xaa	Pro	Gly	Leu	Leu
			35				40					45			

Gln	Val	Lys	Leu	Asp	Gly	Arg	Pro	Arg	Ser	Gln	Phe	Leu	Ser	Thr	Arg
			50			55					60				

Arg	Gly	Arg	Cys	Leu	Glu	Pro	Leu	Pro	Thr	Phe	Ser	Trp	Met	Gly	Glu
65					70					75					80

Ala	Ser	Gln	Glu	Ser	Lys	Gln	Cys	Cys	Pro	His	Gly	Arg	Arg	Thr	Glu
					85				90					95	

Arg	Leu	Gly	Lys	Leu	Gly	Ser	Thr	Ser	His	Pro	Glu	Arg	Leu	Leu	Glu
			100					105					110		

Thr	Pro	Gln	Leu	Glu	Ser	Pro	Gly
			115				120

3949

<210> 4331

<211> 92

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4331

Gly	Met	Pro	Thr	Ala	Ser	Gln	Arg	Val	Gly	Gly	Gly	Leu	Cys	Thr	Leu
1					5				10					15	

Ser	Thr	Asn	Leu	Pro	Pro	Thr	Arg	Leu	Leu	Thr	Thr	Ala	Pro	Arg	Arg
		20						25					30		

Leu	Ser	Asn	Ser	Val	Ser	Cys	Pro	Arg	Gly	Arg	Gly	Leu	Pro	Val	Glu
		35					40					45			

Xaa	Pro	Met	Cys	Leu	Pro	Leu	Val	Gln	Pro	Ala	Ala	Arg	Lys	Trp	Val
	50					55					60				

Thr	Ala	Thr	Gly	Leu	Gly	Trp	Ala	Arg	Pro	Gly	Ser	Gly	Arg	Cys	Gly
65					70					75					80

Ile	Gly	Glu	Thr	Thr	Ala	Pro	Val	Val	Ser	Ser	Ala
				85					90		

<210> 4332

<211> 136

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (87)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (88)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (127)

<223> Xaa equals any of the naturally occurring L-amino acids

3950

<220>

<221> SITE

<222> (133)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4332

Cys Lys His Asp Gly Trp Gly Lys His Ser Asn Cys Thr His Gln Gln
 1 5 10 15

Asp Ala Gly Val Thr Cys Ser Asp Gly Ser Asn Leu Glu Met Arg Leu
 20 25 30

Thr Arg Gly Gly Asn Met Cys Ser Gly Arg Ile Glu Ile Lys Phe Gln
 35 40 45

Gly Arg Trp Gly Thr Val Cys Asp Asp Asn Phe Asn Ile Asp His Ala
 50 55 60

Ser Val Ile Cys Arg Gln Leu Glu Cys Gly Ser Ala Val Ser Phe Ser
 65 70 75 80

Gly Ser Ser Asn Phe Gly Xaa Xaa Ser Gly Pro Ile Trp Phe Asp Asp
 85 90 95

Leu Ile Cys Asn Gly Asn Glu Ser Ala Leu Trp Asn Cys Lys His Gln
 100 105 110

Gly Trp Gly Lys His Asn Cys Asp His Ala Glu Asp Ala Gly Xaa Ile
 115 120 125

Cys Ser Lys Gly Xaa Asp Leu Thr
 130 135

<210> 4333

<211> 59

<212> PRT

<213> Homo sapiens

<400> 4333

Ala Thr Ala His Gly Leu Thr Met Leu Ser Ile Pro Tyr Met Glu Arg
 1 5 10 15

Cys Phe Pro Phe Gln Ser Ser Leu Lys Leu Cys Arg Arg Phe Thr Cys
 20 25 30

Val Tyr Arg Ala Lys Arg Asn Gln Gly Met Glu Ile Glu Cys Val Ile
 35 40 45

3951

Lys Ile Lys Leu Phe Met Leu Tyr Asn His Ala
 50 55

<210> 4334

<211> 52

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4334

Lys Ala Cys Leu Leu His Cys Glu Gln Asp Ser Ser Pro Leu Asn His
 1 5 10 15

Glu Tyr Val Ser Val Leu Trp Ile Thr Lys Leu Val Met Leu Leu Ser
 20 25 30

Pro Asn Val Phe Phe Lys Lys Tyr Ser Phe Val His Leu Xaa Val Ile
 35 40 45

Lys Leu Gln Asn
 50

<210> 4335

<211> 42

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4335

Tyr Glu Ser Leu Glu Met Tyr Gln Thr Glu Gly Xaa Phe Ser Leu Gln
 1 5 10 15

Ile Met Ser Asn Val Ala Ile Leu Thr His Phe Ile Asn Ile Tyr Phe
 20 25 30

Val Ile Gly Gly Glu His His Leu Leu Phe
 35 40

3952

<210> 4336

<211> 51

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4336

Ala	Leu	Asn	Ala	Lys	Leu	Phe	Tyr	Thr	Glu	Lys	Thr	Leu	Lys	Xaa	Val
1				5					10					15	

Leu	Cys	Gly	Ile	Thr	Val	Ile	Cys	His	Glu	Lys	Pro	Tyr	Met	Gly	Asp
			20					25					30		

Met	Leu	Lys	Trp	Leu	Leu	Asn	Glu	Ile	Arg	Gln	Gln	Arg	Lys	Met	Pro
		35					40					45			

Leu	Lys	Cys
		50

<210> 4337

<211> 62

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4337

Asp	Tyr	Ser	Asp	Phe	Val	Ser	Phe	Leu	Leu	Asn	Phe	Gly	Gln	Phe	Cys
1				5					10					15	

Phe	Cys	Leu	Cys	His	Leu	Ser	Phe	Gln	Met	Tyr	Trp	His	Glu	Tyr	Phe
			20					25					30		

His	Asn	Ile	Pro	Xaa	Leu	Ser	Phe	Thr	Phe	Leu	Gly	Tyr	Leu	Ser	Gly
			35				40					45			

3953

Val Ser Leu Phe Ile Pro Lys Met Phe Ile His Ala Phe Xaa
 50 55 60

<210> 4338

<211> 141

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (108)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4338

Asp Met Met Pro Leu Leu His Asn Tyr Val Thr Val Asp Thr Asp Thr
 1 5 10 15

Leu Leu Ser Asp Thr Lys Tyr Leu Glu Met Ile Tyr Ser Met Cys Lys
 20 25 30

Lys Val Leu Thr Gly Val Ala Gly Glu Asp Ala Glu Cys His Ala Ala
 35 40 45

Lys Leu Leu Glu Val Ile Ile Leu Gln Cys Lys Gly Arg Gly Ile Asp
 50 55 60

Gln Cys Ile Pro Leu Phe Val Glu Ala Ala Leu Glu Arg Leu Thr Arg
 65 70 75 80

Glu Val Lys Thr Ser Glu Leu Arg Thr Met Cys Leu Gln Val Ala Ile
 85 90 95

Ala Ala Leu Tyr Tyr Asn Pro His Leu Leu Leu Xaa Thr Leu Glu Asn
 100 105 110

Leu Arg Phe Pro Asn Asn Val Glu Pro Val Thr Asn His Phe Ile Thr
 115 120 125

Gln Trp Leu Asn Asp Val Gly Leu Phe Leu Gly Ala Ser
 130 135 140

<210> 4339

<211> 91

<212> PRT

<213> Homo sapiens

<400> 4339

3954

Leu Ala Ser Met Gly Ile Pro Gln Val Val Val Gln Pro Arg Ser Trp
 1 5 10 15
 Trp Leu Gly Leu Met Leu Leu Pro Ser Pro Ser Val Ser Cys Ser Gly
 20 25 30
 Ser Ala Tyr Val Pro Gly Val Trp Tyr Leu Ile Phe Gln Asp Ala Asp
 35 40 45
 Ile Tyr Phe Leu Pro Thr Thr Pro Tyr Thr Leu Ser Leu Ala Asn Ile
 50 55 60
 Phe Glu Cys Leu Leu Leu Val Cys Leu Ser Ser Val Val Leu Leu Leu
 65 70 75 80
 Cys Pro Lys Cys Met Leu Cys Ser Val Ser Ala
 85 90

<210> 4340
 <211> 68
 <212> PRT
 <213> Homo sapiens

<400> 4340
 Ser Tyr Ser Tyr Ser His Glu Arg Gln Asn Val Cys Phe Lys Ile Asn
 1 5 10 15
 Leu Val Phe Cys Thr Phe Lys Phe Glu Lys Val Thr Thr Gly Ser Phe
 20 25 30
 Pro Val Phe Leu His Val Ser Phe Leu Ile Asp His Tyr Trp Gln Thr
 35 40 45
 Val Ser Val Asn Tyr Gln Met Cys Lys Ile Phe Cys Ile Ser Leu Cys
 50 55 60
 Leu Ile Cys Lys
 65

<210> 4341
 <211> 125
 <212> PRT
 <213> Homo sapiens

<400> 4341
 Gly Ala Ala Pro Pro Leu Ser Ser Glu His Lys Glu Pro Val Ala Gly
 1 5 10 15

3955

Asp Ala Val Pro Gly Pro Lys Asp Gly Ser Ala Pro Glu Val Arg Gly
 20 25 30

Ala Arg Asn Ser Glu Pro Gln Asp Glu Gly Glu Leu Phe Gln Gly Val
 35 40 45

Asp Pro Arg Ala Leu Ala Ala Val Leu Leu Gln Ala Leu Asp Arg Pro
 50 55 60

Ala Ser Pro Pro Ala Pro Ser Gly Ser Gln Gln Gly Pro Glu Glu Glu
 65 70 75 80

Ala Ala Glu Ala Leu Leu Thr Glu Thr Val Arg Ser Gln Thr His Ser
 85 90 95

Leu Pro Ala Pro Glu Ser Pro Glu Pro Ala Ser Ala Ser Pro Ser Asp
 100 105 110

Ser Gly Glu Trp Ala Arg Gly Glu Arg Ser Leu Arg Gly
 115 120 125

<210> 4342

<211> 50

<212> PRT

<213> Homo sapiens

<400> 4342

Phe Leu Leu Trp Gln Ile Leu Ser Ser Asn Leu Ser Phe Leu Val Glu
 1 5 10 15

Gln Ala Leu Phe Phe Glu Pro Ser Asn Asp Leu Glu Ala Asp Val Ile
 20 25 30

Ser Val Pro Phe Ala Ile Cys Cys Val Gly Phe Phe Phe Phe Lys Ala
 35 40 45

Thr Gln
 50

<210> 4343

<211> 273

<212> PRT

<213> Homo sapiens

<400> 4343

Asp Pro Arg Val Arg Glu Asp Pro Gln Pro Gly Pro Lys Pro Val Pro

3956

1	5	10	15
Glu Pro Glu Pro Glu Pro Glu Pro Ser Arg Glu Pro Val Ala Gly Ala	20	25	30
Pro Gly Cys Gly Thr Ala Gly Pro Pro Ala Met Ala Thr Leu Trp Gly	35	40	45
Gly Leu Leu Arg Leu Gly Ser Leu Leu Ser Leu Ser Cys Leu Ala Leu	50	55	60
Ser Val Leu Leu Leu Ala His Cys Gln Thr Pro Pro Arg Ile Ser Arg	65	70	75
Met Ser Asp Val Asn Val Ser Ala Leu Pro Ile Lys Lys Asn Ser Gly	85	90	95
His Ile Tyr Asn Lys Asn Ile Ser Gln Lys Asp Cys Asp Cys Leu His	100	105	110
Val Val Glu Pro Met Pro Val Arg Gly Pro Asp Val Glu Ala Tyr Cys	115	120	125
Leu Arg Cys Glu Cys Lys Tyr Glu Glu Arg Ser Ser Val Thr Ile Lys	130	135	140
Val Thr Ile Ile Ile Tyr Leu Ser Ile Leu Gly Leu Leu Leu Leu Tyr	145	150	155
Met Val Tyr Leu Thr Leu Val Glu Pro Ile Leu Lys Arg Arg Leu Phe	165	170	175
Gly His Ala Gln Leu Ile Gln Ser Asp Asp Asp Ile Gly Asp His Gln	180	185	190
Pro Phe Ala Asn Ala His Asp Val Leu Ala Arg Ser Arg Ser Arg Ala	195	200	205
Asn Val Leu Asn Lys Val Glu Tyr Gly Thr Ala Ala Leu Glu Ala Ser	210	215	220
Ser Pro Arg Ala Ala Lys Ser Leu Ser Leu Thr Gly Met Leu Ser Ser	225	230	235
Ala Asn Trp Gly Ile Glu Phe Lys Val Thr Arg Lys Lys Gln Ala Asp	245	250	255
Asn Trp Lys Gly Thr Asp Trp Val Leu Leu Gly Phe Ile Leu Ile Pro	260	265	270
Cys			

3957

<210> 4344

<211> 72

<212> PRT

<213> Homo sapiens

<400> 4344

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Val Met Ala Pro Lys Asp Val Leu Phe Ile Leu Ile Pro Gly Thr Cys
 1             5             10             15

Lys His Val Thr Leu Tyr Gly Lys Arg Asp Phe Gly Gln Ala Pro Val
          20             25             30

Ile Pro Asp Thr Gln Glu Ala Glu Ala Lys Glu Ser Leu Lys Pro Gly
          35             40             45

Arg Arg Arg Leu Gln Gly Ala Lys Ile Val Pro Met His Ser Ser Leu
          50             55             60

Ser Asn Lys Val Arg Leu Cys Leu
65             70

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<210> 4345

<211> 94

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4345

```

Arg Trp Arg Asp Thr Leu Thr Gln Leu Ser Leu Ser Tyr Tyr Ala Thr
 1             5             10             15

Asp Gln Gly Lys Arg Trp Asp Asp Arg Trp Gly Gln Thr Glu Arg Ala
          20             25             30

Ser Gly Lys Gln Ala Tyr Ile Val Phe Phe Lys Met His Lys Ala Ser
          35             40             45

Gln Leu Arg Xaa His Leu Val Trp Ala Ser Leu Gly Leu Glu Thr Leu
          50             55             60

Leu Glu Phe Phe Leu Gly Thr Trp Arg Val Asp Asp Ile Gln Ala Leu

```

65 70 75 80

Lys His Ser Gln Arg Ser Pro Glu Gly Ala Thr Phe Ser Arg

85 90

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<400> 4346
Arg Glu Gln Ile Lys Arg Val Lys Asp Ser Glu Asp Val Pro Met Val
  1                      5              10                  15

Leu Val Gly Asn Lys Cys Asp Leu Pro Ser Arg Thr Val Asp Thr Lys
      20                      25                  30

Gln Ala Gln Asp Leu Ala Arg Ser Tyr Gly Ile Pro Phe Ile Glu Thr
      35                      40                  45

Ser Ala Lys Thr Arg Gln Gly Val Asp Asp Ala Phe Tyr Thr Leu Val
      50                      55                  60

Arg Glu Ile Arg Lys His Lys Glu Lys Met Ser Lys Asp Gly Lys Lys
      65                      70                  75                  80

Lys Lys Lys Lys Ser Lys Thr Lys Cys Val Ile Met
      85                      90

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<400> 4347
Pro  Ala  Ser  Glu  Val  Leu  Met  Asp  Asp  Asp  Leu  Gln  Lys  Ser  Val  Asp
   1              5              10              15

Met  Ile  Met  Asp  Met  Phe  Cys  Pro  Pro  Gly  Ile  Lys  Ile  Asp  Ala  Tyr
      20              25              30

Pro  Trp  Leu  Glu  Cys  Phe  Ile  Lys  Ser  Tyr  Asn  Val  Thr  Asn  Gly  Thr
      35              40              45

Asp  Asn  Gln  Ile  Cys  Tyr  Gln  Ile  Phe  Asp  Thr  Thr  Val  Ala  Glu  Asp
   50              55              60

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3959

Val Ile
65

<210> 4348

<211> 51

<212> PRT

<213> Homo sapiens

<400> 4348

Leu Arg Cys His Lys Lys Gln His Ser Asp Gln Ser Glu Asn Lys Asn
1 5 10 15

Ser Asp Leu Val Thr Phe Pro Pro Glu Ser Gly Ala Ser Gly Gln Leu
20 25 30

Ser Thr Leu Val Ser Val Gly Gln Leu Glu Ala Pro Leu Glu Pro Ser
35 40 45

Gln Asp Leu
50

<210> 4349

<211> 69

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4349

Lys Ile Ala Glu Leu Glu Phe Ser Pro Val Phe His Phe Thr Leu Pro
1 5 10 15

Val Ser His Ala Gln Asn Thr Arg Gly Ser Ala Gly Ser Gln Ser Thr
20 25 30

Asp Glu Asn Pro Asn Leu Ser Xaa Phe Leu Gly Ser Ser Lys Trp Trp
35 40 45

Ser Arg Met Val Gly Asp Leu Ile Ser Tyr Tyr Leu Pro Gly Glu Xaa

3960

50

55

60

Phe Leu Pro Gly Lys

65

<210> 4350

<211> 313

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (297)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (310)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4350

Gly	Gly	Gly	Arg	Gly	Arg	Glu	Gly	Arg	Arg	Pro	Glu	Arg	Gly	Cys	Cys
1				5					10					15	

Glu	Gly	Arg	Gly	Pro	Val	Thr	Gly	Arg	Glu	Ala	Ala	Gly	Gly	Gly	Gly
			20					25					30		

Gly	Thr	Ser	Thr	Thr	Met	Ser	Arg	Ser	Val	Leu	Gln	Pro	Ser	Gln	Gln
		35					40					45			

Lys	Leu	Ala	Glu	Lys	Leu	Thr	Ile	Leu	Asn	Asp	Arg	Gly	Val	Gly	Met
	50					55					60				

Leu	Thr	Arg	Leu	Tyr	Asn	Ile	Lys	Lys	Ala	Cys	Gly	Asp	Pro	Lys	Ala
65					70					75					80

Lys	Pro	Ser	Tyr	Leu	Ile	Asp	Lys	Asn	Leu	Glu	Ser	Ala	Val	Lys	Phe
				85					90					95	

Ile	Val	Arg	Lys	Phe	Pro	Ala	Val	Glu	Thr	Arg	Asn	Asn	Asn	Gln	Gln
			100					105					110		

Leu	Ala	Gln	Leu	Gln	Lys	Glu	Lys	Ser	Glu	Ile	Leu	Lys	Asn	Leu	Ala
		115					120					125			

Leu	Tyr	Tyr	Phe	Thr	Phe	Val	Asp	Val	Met	Glu	Phe	Lys	Asp	His	Val
	130					135					140				

Cys	Glu	Leu	Leu	Asn	Thr	Ile	Asp	Val	Cys	Gln	Val	Phe	Phe	Asp	Ile
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

3961

145 150 155 160
 Thr Val Asn Phe Asp Leu Thr Lys Asn Tyr Leu Asp Leu Ile Ile Thr
 165 170 175
 Tyr Thr Thr Leu Met Ile Leu Leu Ser Arg Ile Glu Glu Arg Lys Ala
 180 185 190
 Ile Ile Gly Leu Tyr Asn Tyr Ala His Glu Met Thr His Gly Ala Ser
 195 200 205
 Asp Arg Glu Tyr Pro Arg Leu Gly Gln Met Ile Val Asp Tyr Glu Asn
 210 215 220
 Pro Leu Lys Lys Met Met Glu Glu Phe Val Pro His Ser Lys Ser Leu
 225 230 235 240
 Ser Asp Ala Leu Ile Ser Leu Gln Met Val Tyr Pro Arg Arg Asn Leu
 245 250 255
 Ser Ala Asp Gln Trp Arg Asn Ala Gln Leu Leu Ser Leu Ile Ser Ala
 260 265 270
 Pro Ser Thr Met Leu Asn Pro Ala Gln Ser Asp Thr Met Pro Cys Glu
 275 280 285
 Tyr Leu Ser Leu Gly Cys Asn Gly Xaa Ile Gly Leu Ser Leu Ala Leu
 290 295 300
 Phe Val Pro Trp Gly Xaa Leu Asn Thr
 305 310

<210> 4351

<211> 57

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4351

Gly Arg Gly Ser Val Ile Ser Trp Ile Ser Gly His Ile Cys Tyr Ser
 1 5 10 15

Thr Asp His Gly Thr Leu Gly Glu Glu Arg Cys Phe Pro Ser Thr His
 20 25 30

3962

Leu Met Phe Ile Gly Trp Gly Ser Trp Asn Arg Arg Gln Ile Ser Lys
35 40 45

Glu Lys Gly Thr Xaa Ile Tyr Val Ile
50 55

<210> 4352

<211> 70

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

 $\langle 222 \rangle$ (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4352

Val	Ile	Pro	Ile	Tyr	Ile	Xaa	Xaa	Cys	Phe	Thr	Gly	Leu	Ile	Ser	Thr
1				5					10					15	

Ser Ser Thr Pro Pro Met Asn Ser Ser Asn Thr Ser Ile Ile Val Cys
20 25 30

Ser Ser Ala Glu Ile Arg Ala Leu Phe Tyr Trp Leu Gly Cys Arg Phe
35 40 45

Leu Phe Tyr Phe Leu Lys Arg Leu Ile Ser Tyr Arg Lys Gly Phe Phe
50 55 60

Leu Tyr Pro Val Phe Thr
65 70

<210> 4353

<211> 93

<212> PRT

<213> Homo sapiens

<400> 4353

Gly Thr Arg Glu Ser Asp Gly Glu Lys Lys Tyr Pro Cys Pro Glu Cys
1 5 10 15

Gly Ser Phe Phe Arg Ser Lys Ser Tyr Leu Asn Lys His Ile Gln Lys

3963

20 25 30
 Val His Val Arg Ala Leu Gly Gly Pro Leu Gly Asp Leu Gly Pro Ala
 35 40 45
 Leu Gly Ser Pro Phe Ser Pro Gln Gln Asn Met Ser Leu Leu Glu Ser
 50 55 60
 Phe Gly Phe Gln Ile Val Gln Ser Ala Phe Ala Ser Ser Leu Val Asp
 65 70 75 80
 Pro Glu Val Asp Gln Gln Pro Met Gly Pro Glu Gly Lys
 85 90

<210> 4354

<211> 70

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4354

Ser His Gln Ile Phe Met Phe Lys Lys Ile Ser Leu Trp Ile Glu Ser
 1 5 10 15
 Ser Pro Ala Leu Arg Glu Lys Glu Gly Pro Tyr Gly Arg Leu Xaa Ser
 20 25 30
 His Tyr Tyr Cys Leu Tyr Pro Ala Val Leu Met Lys Pro Pro Thr Leu
 35 40 45
 Ser His Ser Arg Asn His Lys Thr Gln Ala Val Leu Asp Ser Gly Gly
 50 55 60
 Leu Pro Gly Lys Ile Arg
 65 70

<210> 4355

<211> 92

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

3964

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (80)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4355

Phe	Ser	Xaa	Pro	Val	Gln	Arg	Leu	Xaa	Cys	Arg	Arg	His	Pro	Leu	Ala
1				5				10						15	

Ala	Cys	Ser	Ser	Ala	Ala	Pro	Phe	Ala	Ala	Val	Pro	Cys	Ala	Pro	Glu
			20					25					30		

Asn	Glu	Asn	Pro	Ala	Phe	Ala	Thr	Asn	His	Ala	Pro	Val	Asn	Ala	Lys
		35					40					45			

Pro	His	Ala	Leu	Cys	Pro	Glu	Arg	Lys	Pro	Leu	Thr	Ser	Lys	Glu	Asn
	50					55					60				

Val	Leu	Met	His	Ser	Ser	Ile	Leu	Ala	Pro	Xaa	Arg	Glu	Ser	Trp	Xaa
65					70					75					80

Thr	Ala	Gly	Glu	Gly	Glu	Asn	Trp	Lys	Lys	Lys	Lys
			85						90		

<210> 4356

<211> 140

<212> PRT

<213> Homo sapiens

<400> 4356

Glu	Cys	Trp	Ser	Glu	Arg	Ser	Leu	Lys	Pro	Gly	Arg	Gly	Ala	Asp	Pro
1				5					10					15	

Leu	Cys	Ser	Ala	Pro	Thr	Leu	Cys	Gln	Gly	Gly	Leu	Ala	Thr	Thr	Val
			20					25					30		

3965

Phe Phe Leu Leu Phe Ile Cys Ser Trp Ile Phe Leu Lys Pro Phe His
 35 40 45

His Gln Pro Ser Ser Ser Leu Pro Ala Pro Trp Arg Leu Lys Leu Phe
 50 55 60

Pro Ala Tyr Val Arg Glu Gly Glu Pro Glu Thr Ala Thr Ser Gly Val
 65 70 75 80

Lys Gly Val Ser Ser Glu Pro Arg Thr Met Ala Phe Cys His Cys Leu
 85 90 95

Leu Ser Ser Cys Cys Trp Gly Leu Gly Leu Leu Ala Ala Ala Ser Phe
 100 105 110

Ser Ala Asn Gln Glu Ser Arg Glu Val Gly Thr Ala Ser Thr Lys Thr
 115 120 125

Leu Lys Met Ser Gly Glu Asp Arg Leu Ser Pro Gly
 130 135 140

<210> 4357

<211> 58

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4357

Leu Gly Leu Gly Gln Cys Leu Trp Pro Xaa Phe Ser His Ser Tyr Xaa
 1 5 10 15

Ala Glu Cys Ser Lys Ser Val Gln Ile Arg Glu Thr Thr Arg Cys Asn
 20 25 30

Gln Ser Ser Cys Ser Leu Pro Tyr Phe Gln Ile Leu Tyr Val Ile Ser

3966

[illegible]

3967

<210> 4359

<211> 32

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4359

Leu	Met	Val	Ile	Asp	Phe	Ile	Pro	Lys	His	Asn	Trp	Lys	Ile	Glu	Xaa
1				5					10					15	

Glu	Pro	Leu	Pro	Asn	Gly	Lys	Glu	Met	Lys	Ser	Phe	His	Ser	Asp	Tyr
			20				25						30		

<210> 4360

<211> 57

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4360

Asn	Ile	Asn	Pro	Asn	Ser	Pro	Phe	His	Phe	Ser	Leu	Arg	His	Glu	Ser
1				5					10					15	

Tyr	Lys	Thr	Gln	Tyr	Arg	Ala	Met	Phe	Val	Met	Asn	Cys	Ser	Ile	Asn
			20				25						30		

Lys	Glu	Glu	Val	Leu	Arg	Xaa	Lys	Ala	Ser	Glu	Glu	Gln	Glu	Gly	Lys
			35				40					45			

Gly	Gly	Ser	Ile	Arg	Lys	Met	Arg	Ser
			50			55		

<210> 4361

<211> 41

<212> PRT

<213> Homo sapiens

3968

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4361

Asn	Gly	Phe	Glu	Thr	Ile	Gly	Thr	Asp	Lys	Ser	Gln	Ile	Gly	Gly	Ser
1				5					10					15	

Leu	Ile	Leu	Asn	Trp	Pro	Cys	His	Gln	Cys	Leu	Phe	Leu	Arg	Xaa	Phe
			20					25					30		

Gly	Gly	Cys	His	Val	Tyr	His	Phe	Phe
		35					40	

<210> 4362

<211> 391

<212> PRT

<213> Homo sapiens

<400> 4362

Thr	Trp	Val	Pro	Thr	Thr	Ile	Leu	Asp	Leu	His	Gly	Ile	Leu	Asp	His
1				5					10					15	

Val	Lys	Lys	Gln	Pro	Pro	Lys	Ser	Leu	Arg	Ser	Met	Glu	Leu	Glu	Cys
			20					25					30		

Ala	Val	Leu	Gly	Arg	Lys	Leu	Glu	Thr	Trp	Asp	Lys	His	Glu	Glu	Leu
		35					40					45			

Glu	Glu	Leu	Val	Ala	Arg	Phe	Leu	Gly	Val	Glu	Ala	Ala	Met	Ala	Tyr
	50					55					60				

Gly	Met	Gly	Phe	Ala	Thr	Asn	Ser	Met	Asn	Ile	Pro	Ala	Leu	Val	Gly
65					70					75					80

Lys	Gly	Cys	Leu	Ile	Leu	Ser	Asp	Glu	Leu	Asn	His	Ala	Ser	Leu	Val
			85						90					95	

Leu	Gly	Ala	Arg	Leu	Ser	Gly	Ala	Thr	Ile	Arg	Ile	Phe	Lys	His	Asn
			100					105					110		

Asn	Met	Gln	Ser	Leu	Glu	Lys	Leu	Leu	Lys	Asp	Ala	Ile	Val	Tyr	Gly
		115					120					125			

Gln	Pro	Arg	Thr	Arg	Arg	Pro	Trp	Lys	Lys	Ile	Leu	Ile	Leu	Val	Glu
	130					135					140				

3969

Gly Ile Tyr Ser Met Glu Gly Ser Ile Val Arg Leu Pro Glu Val Ile
 145 150 155 160
 Ala Leu Lys Lys Lys Tyr Lys Ala Tyr Leu Tyr Leu Asp Glu Ala His
 165 170 175
 Ser Ile Gly Ala Leu Gly Pro Thr Gly Arg Gly Val Val Glu Tyr Phe
 180 185 190
 Gly Leu Asp Pro Glu Asp Val Asp Val Met Met Gly Thr Phe Thr Lys
 195 200 205
 Ser Phe Gly Ala Ser Gly Gly Tyr Ile Gly Gly Lys Lys Glu Leu Ile
 210 215 220
 Asp Tyr Leu Arg Thr His Ser His Ser Ala Val Tyr Ala Thr Ser Leu
 225 230 235 240
 Ser Pro Pro Val Val Glu Gln Ile Ile Thr Ser Met Lys Cys Ile Met
 245 250 255
 Gly Gln Asp Gly Thr Ser Leu Gly Lys Glu Cys Val Gln Gln Leu Ala
 260 265 270
 Glu Asn Thr Arg Tyr Phe Arg Arg Arg Leu Lys Glu Met Gly Phe Ile
 275 280 285
 Ile Tyr Gly Asn Glu Asp Ser Pro Val Val Pro Leu Met Leu Tyr Met
 290 295 300
 Pro Ala Lys Ile Gly Ala Phe Gly Arg Glu Met Leu Lys Arg Asn Ile
 305 310 315 320
 Gly Val Val Val Val Gly Phe Pro Ala Thr Pro Ile Ile Glu Ser Arg
 325 330 335
 Ala Arg Phe Cys Leu Ser Ala Ala His Thr Lys Glu Ile Leu Asp Thr
 340 345 350
 Ala Leu Lys Glu Ile Asp Glu Val Gly Asp Leu Leu Gln Leu Lys Tyr
 355 360 365
 Ser Arg His Arg Leu Val Pro Leu Leu Asp Arg Pro Phe Asp Glu Thr
 370 375 380
 Thr Tyr Glu Glu Thr Glu Asp
 385 390

<210> 4363

3970

<211> 62
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (54)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (59)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4363
Ser Gly Val Val Thr Ala Cys Glu Gly Thr Glu Leu Ser Ala Gly Ser
1 5 10 15
Arg Asp His Gly His Lys Ala Leu Thr Leu Thr Arg Pro Gln Gln Ala
20 25 30
Leu Xaa Glu Gly Gln Pro Pro Pro Leu Leu Leu Leu Ser Leu Thr Val
35 40 45
Ala Val Asp Leu Arg Xaa Tyr Ile Leu Arg Xaa His Ser Leu
50 55 60

<210> 4364
<211> 225
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (76)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (143)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

3971

<222> (176)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4364

Gly Thr Arg Ser Gly Ser Glu Glu Asp Pro Glu Thr Glu Ser Gly Pro
 1 5 10 15

Pro Val Glu Arg Cys Gly Val Leu Ser Lys Trp Thr Asn Tyr Ile His
 20 25 30

Gly Trp Gln Asp Arg Trp Val Val Leu Lys Asn Asn Ala Leu Ser Tyr
 35 40 45

Tyr Lys Ser Glu Asp Glu Thr Glu Tyr Gly Cys Arg Gly Ser Ile Cys
 50 55 60

Leu Ser Lys Ala Val Ile Thr Pro His Asp Phe Xaa Glu Cys Arg Phe
 65 70 75 80

Asp Ile Ser Val Asn Asp Ser Val Trp Tyr Leu Arg Ala Gln Asp Pro
 85 90 95

Asp His Arg Gln Gln Trp Ile Asp Ala Ile Glu Gln His Lys Thr Glu
 100 105 110

Ser Gly Tyr Gly Ser Glu Ser Ser Leu Arg Arg His Gly Ser Met Val
 115 120 125

Ser Leu Val Ser Gly Ala Ser Gly Tyr Ser Glu Thr Ser Thr Xaa Ser
 130 135 140

Phe Lys Lys Gly His Ser Leu Arg Glu Lys Leu Ala Glu Met Glu Thr
 145 150 155 160

Phe Arg Asp Ile Leu Cys Arg Gln Val Asp Thr Leu Gln Lys Tyr Xaa
 165 170 175

Asp Ala Cys Ala Asp Ala Val Ser Lys Asp Glu Leu Gln Arg Asp Lys
 180 185 190

Val Val Glu Asp Asp Glu Asp Asp Phe Pro Thr Thr Arg Ser Asp Gly
 195 200 205

Asp Phe Leu His Ser Thr Asn Gly Asn Lys Glu Lys Leu Phe Pro His
 210 215 220

Val
 225

3972

<210> 4365

<211> 114

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4365

Ile	Ala	Ser	Ala	Xaa	Phe	Tyr	Ala	Arg	Leu	Asn	Tyr	Glu	Pro	Val	Arg
1				5					10					15	

Pro	Gly	Gly	Gly	Ser	Gly	Gly	His	Ser	Ala	Arg	Cys	Arg	Arg	Arg	Glu
			20					25					30		

Arg	Gly	Ala	Ala	Ala	Ala	His	Gly	Ala	Pro	Ser	Ala	Ser	Phe	Phe	Pro
		35					40					45			

Pro	Pro	Val	Pro	Asn	Pro	Phe	Val	Gln	Gln	Thr	Gln	Ile	Gly	Ser	Ala
		50				55					60				

Arg	Arg	Val	Gln	Ile	Val	Leu	Leu	Gly	Ile	Ile	Leu	Leu	Pro	Ile	Arg
65					70					75					80

Val	Leu	Leu	Val	Ala	Leu	Ile	Tyr	Tyr	Leu	His	Gly	His	Cys	Cys	Ile
				85					90					95	

Ser	Thr	Val	Cys	Cys	Pro	Glu	Lys	Leu	Thr	His	Pro	Ile	Thr	Gly	Trp
		100						105					110		

Arg Arg

<210> 4366

<211> 56

<212> PRT

<213> Homo sapiens

<400> 4366

Val	Gly	Met	Val	Ser	His	Ser	Ser	Arg	Cys	Arg	Phe	Gly	Leu	Leu	Gly
1				5					10					15	

Thr	Ile	Trp	Leu	Asp	Pro	Glu	Ser	Ala	Trp	Asn	Arg	Asp	Arg	Asp	Leu
			20					25					30		

Ser	Gly	Pro	Ala	Ala	Gly	Ser	Ser	Leu	Val	Val	Ala	Val	Val	Arg	Gly
			35				40					45			

3973

Leu Arg Trp Leu Pro Gly Leu Val
 50 55

<210> 4367

<211> 389

<212> PRT

<213> Homo sapiens

<400> 4367

Gly Thr Ser Ser Ser Ser Ser Ser Gln Leu Ala Pro Asn Gly Ala Lys
 1 5 10 15

Cys Ile Pro Val Arg Asp Arg Gly Phe Leu Val Gln Thr Ile Glu Phe
 20 25 30

Ala Glu Gln Arg Ile Pro Val Leu Asn Glu Tyr Cys Val Val Cys Asp
 35 40 45

Glu Pro His Val Phe Gln Asn Gly Pro Met Leu Arg Pro Thr Val Cys
 50 55 60

Glu Arg Glu Leu Cys Val Phe Ala Phe Gln Thr Leu Gly Val Met Asn
 65 70 75 80

Glu Ala Ala Asp Glu Ile Ala Thr Gly Ala Gln Val Val Asp Leu Leu
 85 90 95

Val Ser Met Cys Arg Ser Ala Leu Glu Ser Pro Arg Lys Val Val Ile
 100 105 110

Phe Glu Pro Tyr Pro Ser Val Val Asp Pro Asn Asp Pro Gln Met Leu
 115 120 125

Ala Phe Asn Pro Arg Lys Lys Asn Tyr Asp Arg Val Met Lys Ala Leu
 130 135 140

Asp Ser Ile Thr Ser Ile Arg Glu Met Thr Gln Ala Pro Tyr Leu Glu
 145 150 155 160

Ile Lys Lys Gln Met Asp Lys Gln Asp Pro Leu Ala His Pro Leu Leu
 165 170 175

Gln Trp Val Ile Ser Ser Asn Arg Ser His Ile Val Lys Leu Pro Val
 180 185 190

Asn Arg Gln Leu Lys Phe Met His Thr Pro His Gln Phe Leu Leu Leu
 195 200 205

3974

Ser Ser Pro Pro Ala Lys Glu Ser Asn Phe Arg Ala Ala Lys Lys Leu
 210 215 220
 Phe Gly Ser Thr Phe Ala Phe His Gly Ser His Ile Glu Asn Trp His
 225 230 235 240
 Ser Ile Leu Arg Asn Gly Leu Val Val Ala Ser Asn Thr Arg Leu Gln
 245 250 255
 Leu His Gly Ala Met Tyr Gly Ser Gly Ile Tyr Leu Ser Pro Met Ser
 260 265 270
 Ser Ile Ser Phe Gly Tyr Ser Gly Met Asn Lys Lys Gln Lys Val Ser
 275 280 285
 Ala Lys Asp Glu Pro Ala Ser Ser Ser Lys Ser Ser Asn Thr Ser Gln
 290 295 300
 Ser Gln Lys Lys Gly Gln Gln Ser Gln Phe Leu Gln Ser Arg Asn Leu
 305 310 315 320
 Lys Cys Ile Ala Leu Cys Glu Val Ile Thr Ser Ser Asp Leu His Lys
 325 330 335
 His Gly Glu Ile Trp Val Val Pro Asn Thr Asp His Val Cys Thr Arg
 340 345 350
 Phe Phe Phe Val Tyr Glu Asp Gly Gln Val Gly Asp Ala Asn Ile Asn
 355 360 365
 Thr Gln Glu Gly Gly Ile His Lys Glu Ile Leu Arg Val Ile Gly Asn
 370 375 380
 Gln Thr Ala Thr Gly
 385

<210> 4368

<211> 195

<212> PRT

<213> Homo sapiens

<400> 4368

Thr Ser Leu Gln Leu Met Met Ser Ser Phe Ser Gln Gly Val Gln Arg
 1 5 10 15

Gln Glu Val Val Cys Lys Arg Leu Asp Asp Asn Ser Ile Val Gln Asn
 20 25 30

Asn Tyr Cys Asp Pro Asp Ser Lys Pro Pro Glu Asn Gln Arg Ala Cys

3975

35	40	45	
Asn Thr Glu Pro Cys Pro Pro Glu Trp Phe Ile Gly Asp Trp Leu Glu			
50	55	60	
Cys Ser Lys Thr Cys Asp Gly Gly Met Arg Thr Arg Ala Val Leu Cys			
65	70	75	80
Ile Arg Lys Ile Gly Pro Ser Glu Glu Glu Thr Leu Asp Tyr Ser Gly			
85	90	95	
Cys Leu Thr His Arg Pro Val Glu Lys Glu Pro Cys Asn Asn Gln Ser			
100	105	110	
Cys Pro Pro Gln Trp Val Ala Leu Asp Trp Ser Glu Cys Thr Pro Lys			
115	120	125	
Cys Gly Pro Gly Phe Lys His Arg Ile Val Leu Cys Lys Ser Ser Asp			
130	135	140	
Leu Ser Lys Thr Phe Pro Ala Ala Gln Cys Pro Glu Glu Ser Lys Pro			
145	150	155	160
Pro Val Arg Ile Arg Cys Ser Leu Gly Arg Cys Pro Pro Pro Arg Trp			
165	170	175	
Val Thr Gly Asp Trp Gly Gln Cys Ser Ala Gln Cys Gly Leu Gly Gln			
180	185	190	
His Leu Gly			
195			

<210> 4369

<211> 92

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

3976

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4369

Ala	Gln	Gly	Phe	Arg	His	Glu	Xaa	Xaa	Leu	Leu	Val	Gly	Gly	Leu	Leu
1				5					10					15	

Ala	Xaa	Asp	Gly	Asp	Cys	Pro	Gly	Val	Val	Thr	Met	Phe	Leu	Ser	Ala
			20					25					30		

Val	Phe	Phe	Ala	Lys	Ser	Lys	Ser	Lys	Asn	Ile	Leu	Val	Arg	Met	Val
			35					40					45		

Ser	Glu	Ala	Gly	Thr	Gly	Phe	Cys	Phe	Asn	Thr	Lys	Arg	Asn	Arg	Leu
	50						55					60			

Arg	Glu	Lys	Leu	Thr	Leu	Leu	His	Tyr	Asp	Pro	Val	Val	Lys	Gln	Arg
65						70					75				80

Val	Leu	Phe	Val	Glu	Lys	Lys	Lys	Ile	Arg	Ser	Leu
				85					90		

<210> 4370

<211> 63

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4370

Arg	Phe	Gln	Phe	Pro	Val	Cys	His	Arg	Trp	Pro	Pro	Ile	Phe	Gln	Lys
1				5					10					15	

Ser	Leu	Ala	Pro	Leu	Phe	Leu	Phe	Leu	His	Pro	Ser	Pro	Gln	Arg	Ser
			20					25					30		

Leu	Thr	Arg	Xaa	Lys	Gln	Glu	Asp	Ser	Val	Ile	Tyr	Lys	Arg	His	Phe
			35					40				45			

Ser	Phe	Thr	Arg	Thr	Glu	Asn	Ser	Thr	Gln	His	Tyr	Arg	Asn	Ser
	50					55					60			

<210> 4371

<211> 91

3977

<212> PRT

<213> Homo sapiens

<400> 4371

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Asp Val Cys Phe Asn Leu Ile Phe Leu Arg Asp Gly Gly His His Val
 1             5             10             15

Glu Thr Arg Lys Trp Gly Lys Cys Glu Leu Ser Arg Gln Arg Phe Ile
          20             25             30

Leu Cys Leu Tyr Leu Phe Leu Ile Gly Leu Ile Ser Asn Val Leu Asn
          35             40             45

Ser Ser Ile Pro Gly Leu Gly Val Cys Asn Gly Tyr Gln Lys Thr Asn
          50             55             60

Lys Lys Arg Lys Lys Lys Glu Lys Lys Lys Glu Asn Asn Cys Asp Met
        65             70             75             80

Leu Leu Ser Leu Leu Tyr Phe Ser Asn Asn Met
          85             90

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<210> 4372

<211> 64

<212> PRT

<213> Homo sapiens

<400> 4372

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Lys Leu Ser Glu Gly Tyr Tyr Leu Tyr Leu Met Lys Glu Asn Pro Asn
 1             5             10             15

Lys Ala His Leu Glu Ile Asp Ile Leu Leu Tyr Met Cys Tyr Arg Tyr
          20             25             30

Thr Tyr Ile Val Gln Ile Asp Met Cys Asp Ala Tyr Ile Gln Cys Tyr
          35             40             45

Ile Cys Val Tyr Val Cys Ile His Thr Glu Ser Val Ile Cys Ile His
          50             55             60

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<210> 4373

<211> 255

<212> PRT

<213> Homo sapiens

3978

<400> 4373

Glu	Arg	Arg	Val	Arg	Arg	Val	His	Glu	Glu	Val	Arg	Val	Lys	Ile	Lys
1				5				10					15		
Asp	Leu	Asn	Glu	His	Ile	Val	Cys	Cys	Leu	Cys	Ala	Gly	Tyr	Phe	Val
		20					25					30			
Asp	Ala	Thr	Thr	Ile	Thr	Glu	Cys	Leu	His	Thr	Phe	Cys	Lys	Ser	Cys
	35					40					45				
Ile	Val	Lys	Tyr	Leu	Gln	Thr	Ser	Lys	Tyr	Cys	Pro	Met	Cys	Asn	Ile
50					55					60					
Lys	Ile	His	Glu	Thr	Gln	Pro	Leu	Leu	Asn	Leu	Lys	Leu	Asp	Arg	Val
65					70				75					80	
Met	Gln	Asp	Ile	Val	Tyr	Lys	Leu	Val	Pro	Gly	Leu	Gln	Asp	Ser	Glu
			85					90					95		
Glu	Lys	Arg	Ile	Arg	Glu	Phe	Tyr	Gln	Ser	Arg	Gly	Leu	Asp	Arg	Val
			100					105					110		
Thr	Gln	Pro	Thr	Gly	Glu	Glu	Pro	Ala	Leu	Ser	Asn	Leu	Gly	Leu	Pro
	115						120					125			
Phe	Ser	Ser	Phe	Asp	His	Ser	Lys	Ala	His	Tyr	Tyr	Arg	Tyr	Asp	Glu
	130					135					140				
Gln	Leu	Asn	Leu	Cys	Leu	Glu	Arg	Leu	Ser	Ser	Gly	Lys	Asp	Lys	Asn
145					150					155					160
Lys	Ser	Val	Leu	Gln	Asn	Lys	Tyr	Val	Arg	Cys	Ser	Val	Arg	Ala	Glu
				165					170					175	
Val	Arg	His	Leu	Arg	Arg	Val	Leu	Cys	His	Arg	Leu	Met	Leu	Asn	Pro
			180					185					190		
Gln	His	Val	Gln	Leu	Leu	Phe	Asp	Asn	Glu	Val	Leu	Pro	Asp	His	Met
		195					200					205			
Thr	Met	Lys	Gln	Ile	Trp	Leu	Ser	Arg	Trp	Phe	Gly	Lys	Pro	Ser	Pro
	210					215					220				
Leu	Leu	Leu	Gln	Tyr	Ser	Val	Lys	Glu	Lys	Arg	Arg	Leu	Ala	Lys	Pro
225					230					235					240
Pro	Pro	His	Pro	Thr	Pro	Leu	Pro	Ser	Pro	Asp	Ile	Tyr	Val	Lys	
				245					250					255	

3979

<210> 4374

<211> 34

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4374

Met	Xaa	Leu	Leu	Tyr	Phe	Ser	Gln	Gln	Gln	Ala	Arg	Gly	Arg	Asn	Ile
1				5					10					15	

His	Lys	Tyr	Asp	Arg	Ser	Tyr	Met	Lys	Phe	Gly	Ser	Pro	Pro	Ile	Lys
			20					25					30		

Val Ala

<210> 4375

<211> 80

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4375

Cys	Ser	Pro	Leu	Ala	Glu	Glu	Val	Val	Ser	Phe	Leu	Trp	Lys	Asn	Phe
1				5					10					15	

Gln	Asn	Ser	Gly	Phe	Phe	Phe	Phe	Phe	Gly	Val	Phe	His	Gln	Leu	Lys
			20					25					30		

Ser	Asp	Ser	Xaa	Phe	Glu	Phe	Ser	Ser	Tyr	Ile	Cys	Ile	Val	Ser	Ser
			35				40					45			

Phe	Phe	Leu	Pro	Leu	Tyr	Pro	Ser	Cys	Phe	Thr	Leu	Tyr	Leu	Ser	Ile
			50			55				60					

Pro	Cys	Ser	Asn	Tyr	Cys	Lys	Ser	Leu	Tyr	Arg	Lys	Ser	Ser	Val	Ile
65					70					75				80	

3980

<210> 4376

<211> 93

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4376

Arg	Val	Phe	Gln	Ala	Trp	Leu	Phe	Thr	Xaa	Ser	Phe	Arg	Gly	Thr	Leu
1				5					10					15	

Lys	Pro	Trp	Arg	His	Leu	Ala	Leu	Glu	Pro	Trp	Arg	Phe	Pro	Cys	His
			20					25					30		

Ser	Pro	Cys	Trp	Asp	Lys	Ala	Arg	Ala	Trp	His	Pro	Gly	Met	Met	Phe
		35					40					45			

Pro	Ala	Ala	Glu	Cys	Ala	His	Asn	Leu	Ser	Ser	Ser	Cys	Val	Arg	Gln
	50					55					60				

Leu	His	Met	Leu	Ala	Ser	Asn	Xaa	Pro	Xaa	Gln	Pro	Ser	Gln	Tyr	Tyr
65						70				75					80

Cys	Phe	Ser	Ser	Ser	Tyr	Arg	Trp	Gly	Asp	Asp	Asp	Ile
				85					90			

<210> 4377

<211> 86

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

3981

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4377

Lys	Glu	Asn	Glu	Lys	Glu	Ser	Pro	Arg	Gln	Arg	Arg	Gly	Lys	Glu	Asn
1				5					10					15	

Lys	Leu	Arg	His	Ser	Xaa	Phe	Ser	Phe	Leu	Thr	Leu	Cys	Leu	Glu	His
			20					25					30		

His	Thr	Ala	His	Lys	Leu	Phe	Pro	Asn	Ala	Gln	Leu	Ala	Pro	Lys	Val
		35					40					45			

Gly	Ala	Trp	His	Gly	Xaa	Gly	Ala	His	Lys	Thr	Leu	Thr	Lys	Leu	Xaa
	50					55					60				

Ala	Gly	Met	Gly	Glu	Xaa	Leu	Leu	Val	His	Ser	Ser	Tyr	Pro	Leu	Pro
65					70					75					80

Pro	Asn	Pro	Leu	Leu	Ala
				85	

<210> 4378

<211> 196

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (118)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4378

Glu	Lys	Val	Ser	Leu	Ser	Ser	Pro	Ser	Pro	Ala	Thr	Leu	Ala	Met	Asp
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

3982

1	5	10	15
Gln Pro Ala Gly Leu Gln Val Asp Tyr Val Phe Arg Gly Val Glu His	20	25	30
Ala Val Arg Val Met Val Ser Gly Gln Val Leu Glu Leu Glu Val Glu	35	40	45
Asp Arg Met Thr Ala Asp Gln Trp Arg Gly Glu Phe Asp Ala Gly Phe	50	55	60
Ile Glu Asp Leu Thr His Lys Thr Gly Asn Phe Lys Gln Phe Asn Ile	65	70	75
Phe Cys His Met Leu Glu Ser Ala Leu Thr Gln Ser Ser Glu Ser Val	85	90	95
Thr Leu Asp Leu Leu Thr Tyr Thr Asp Leu Glu Ser Leu Arg Asn Arg	100	105	110
Arg Trp Gly Ala Ala Xaa Ser Leu Ala Pro Arg Ser Ala Gln Leu Asn	115	120	125
Ser Lys Arg Tyr Leu Ile Leu Ile Tyr Ser Val Glu Phe Asp Arg Ile	130	135	140
His Tyr Pro Leu Pro Leu Pro Tyr Gln Gly Lys Pro Asp Pro Val Val	145	150	155
Leu Gln Gly Ile Ile Arg Ser Leu Lys Glu Glu Leu Gly Arg Leu Pro	165	170	175
Ser Pro Cys Pro Gly Pro Val Pro Pro Ala Ala Pro Gly Gly Leu Arg	180	185	190
Cys Val Arg Pro	195		

<210> 4379

<211> 70

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

3983

<221> SITE
 <222> (2)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (3)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (4)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 4379
 Xaa Xaa Xaa Xaa Thr Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr
 1 5 10 15
 Ala Val Ala Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn
 20 25 30
 Ser Ala Arg Glu Lys Asn Tyr Leu Tyr Ile Thr Leu Lys Gly Val Glu
 35 40 45
 Gly Leu Phe Ala Glu Leu Leu Arg Leu Lys Tyr Thr Leu Phe Leu Glu
 50 55 60
 Lys Ile Thr Asp Phe Leu
 65 70

<210> 4380
 <211> 118
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (2)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 4380
 Arg Xaa Trp Glu Thr Ala His Pro Asp Leu Pro Met Ser Gln Asn Lys
 1 5 10 15
 His Met Tyr Ser Gly Ser Phe Ser Phe Ser Asn Thr Leu Pro Gln Lys
 20 25 30
 Gln Val Val Cys Pro Arg His Lys Glu Gly Lys Leu Ala Ile Phe Pro
 35 40 45

3984

Thr Ser Lys Phe Cys Lys Ile Ile Asp Leu Leu Lys Arg Phe Leu Phe
 50 55 60
 Ile Ile Pro Thr Leu Cys Lys Trp Lys Gly His Cys Val Pro Cys Val
 65 70 75 80
 Ser Ser Leu Gln Arg Leu Cys Pro Leu Ala Cys Phe Val Thr Ile Ser
 85 90 95
 Leu Gly Glu Glu Trp Val His Pro Ala Pro Arg Pro Val Val Ala Arg
 100 105 110
 Gly Leu Pro Cys Glu Phe
 115

<210> 4381

<211> 23

<212> PRT

<213> Homo sapiens

<400> 4381

Glu Gln Val Val Ser Ile Phe Leu His Tyr Leu Phe Leu Glu Thr His
 1 5 10 15

Lys Met Asp Cys Ile Phe Leu
 20

<210> 4382

<211> 173

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (142)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (144)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (146)

<223> Xaa equals any of the naturally occurring L-amino acids

3985

<220>

<221> SITE

<222> (155)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (163)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (172)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4382

Glu	Tyr	Ile	Lys	Asn	Ser	Gln	Asn	Asn	Ser	Thr	Cys	Glu	Tyr	Gly	Ala
1				5					10					15	

Pro	Cys	Lys	Tyr	Ile	Arg	Lys	Pro	Ile	Asp	Tyr	Thr	Val	Leu	Asp	Asp
			20					25					30		

Val	Gly	His	Gly	Val	Lys	Trp	Leu	Lys	Ala	Lys	His	Gly	Asn	Asn	Gln
		35					40					45			

Pro	Ala	Arg	Thr	Gly	Thr	Leu	Ser	Arg	Thr	Asn	Pro	Pro	Thr	Gln	Lys
	50					55					60				

Pro	Pro	Ser	Pro	Pro	Met	Ser	Gly	Arg	Gly	Thr	Leu	Gly	Arg	Asn	Thr
65					70					75					80

Pro	Tyr	Lys	Thr	Leu	Glu	Pro	Val	Lys	Pro	Pro	Thr	Val	Pro	Asn	Asp
				85					90					95	

Tyr	Met	Thr	Ser	Pro	Ala	Arg	Leu	Gly	Ser	Gln	His	Ser	Pro	Gly	Arg
			100					105					110		

Thr	Ala	Ser	Leu	Asn	Gln	Arg	Pro	Arg	Thr	His	Ser	Gly	Ser	Ser	Gly
		115					120					125			

Gly	Ser	Gly	Lys	Phe	Glu	Glu	Asn	Ser	Gly	Ser	Ser	Ser	Xaa	Gly	Xaa
	130						135				140				

Pro	Xaa	Ala	Val	Pro	Thr	Pro	Ser	Ala	Pro	Xaa	Ile	Leu	Lys	Pro	Phe
145					150					155					160

Val	Asp	Xaa	Ser	Asn	Phe	His	Arg	His	His	Phe	Xaa	Pro
				165					170			

3986

<210> 4383

<211> 137

<212> PRT

<213> Homo sapiens

<400> 4383

Leu Glu Val Asp Trp Ser Leu Phe Asp Gly Phe Ala Asp Gly Leu Gly
1 5 10 15

Val Ala Glu Ala Ile Ser Tyr Val Asp Pro Gln Phe Leu Thr Tyr Met
20 25 30

Ala Leu Glu Glu Arg Leu Ala Gln Ala Met Glu Thr Ala Leu Ala His
35 40 45

Leu Glu Ser Leu Ala Val Asp Val Glu Val Ala Asn Pro Pro Ala Ser
50 55 60

Lys Glu Ser Ile Asp Ala Leu Pro Glu Ile Leu Val Thr Glu Asp His
65 70 75 80

Gly Ala Val Gly Gln Glu Met Cys Cys Pro Ile Cys Cys Ser Glu Tyr
85 90 95

Val Lys Gly Glu Val Ala Thr Glu Leu Pro Cys His His Tyr Phe His
100 105 110

Lys Pro Cys Val Ser Ile Trp Leu Gln Lys Ser Gly Thr Cys Pro Val
115 120 125

Cys Arg Cys Met Phe Pro Pro Pro Leu
130 135

<210> 4384

<211> 53

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

3987

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4384

Xaa	Pro	Xaa	Leu	Gly	Arg	Ser	Gln	Xaa	Glu	Pro	Pro	Leu	Ser	Ala	Ser
1				5					10					15	

Xaa	Pro	Pro	Ala	Ser	Gln	Pro	Pro	Gln	Met	Arg	Phe	Leu	Pro	Leu	Pro
			20					25					30		

Pro	Arg	Asn	Gln	Asn	Pro	His	Cys	Ser	Gln	Asp	Gly	Leu	Ile	Tyr	Lys
		35					40					45			

Pro	Asp	Thr	Cys	Ser
				50

<210> 4385

<211> 74

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4385

Gly	Arg	Gly	Xaa	Val	Asn	Ile	Leu	Ser	Ala	Leu	Phe	Pro	Arg	Gly	Ile
1				5					10					15	

Asn	Ile	Lys	Val	Met	Asp	Ile	Leu	Lys	Ser	Gln	Phe	Asn	Phe	Phe	Leu
			20					25					30		

3988

Phe Thr Met Gln Tyr Ser Arg Gly Thr Ser Asn Val Asp Leu Val Phe
 35 40 45

Ser Ser Ser Asn Ala Leu Ile Thr Leu Pro His Arg Val Val Val Gly
 50 55 60

Xaa Asn Lys Thr Leu Trp Xaa Gln Lys Lys
 65 70

<210> 4386
 <211> 82
 <212> PRT
 <213> Homo sapiens

<400> 4386
 Glu Ala Ser Gly Gln Val Leu Pro Pro Asn Leu Lys Thr Leu Gly Met
 1 5 10 15

Gln Leu Gly Arg Asp Leu Ser Arg Phe Cys Leu Asp Lys Gln Val Arg
 20 25 30

Met Ala Glu His Trp Leu Ile Val Asn Gln Cys Phe Phe Ile Tyr Leu
 35 40 45

Lys Tyr Ser Gln Gln Leu Ile Leu Arg Ser Phe Leu Lys Val Leu His
 50 55 60

Leu His Pro His Asn Ser Pro Ile Gln Asn Met Glu Gln Gly Cys Gly
 65 70 75 80

Ala Val

<210> 4387
 <211> 63
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (11)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 4387
 Gly Asp Ser Val Ser Lys Lys Lys Lys Lys Xaa Val Pro Thr Val Tyr
 1 5 10 15

3989

Val Trp Ala Leu Val Leu Glu Pro Val Leu Lys Glu Ser Gly Gln Ala
 20 25 30

Gln Trp Leu Thr Pro Val Ile Ser Ala His Trp Glu Ala Glu Val Gly
 35 40 45

Gly Ser Pro Glu Val Arg Ser Ser Arg Pro Ala Trp Pro Thr Trp
 50 55 60

<210> 4388

<211> 107

<212> PRT

<213> Homo sapiens

<400> 4388

Lys Lys Lys Lys Leu Pro Ile Val Thr Leu Ala Val Leu Ile Asn Lys
 1 5 10 15

Arg Cys Cys Val Arg Ser Pro Val Ser Val Trp Ile Gln Gln Leu Ser
 20 25 30

Arg Glu Ser His Cys Met Gly Val Glu Leu Thr Val Leu Val Ile Cys
 35 40 45

Lys Pro Pro Arg Pro Asn Leu Arg Val Tyr Leu Gly Phe Ser Val Cys
 50 55 60

Pro Leu Gly Phe Cys Phe Thr Leu Phe Trp Cys Arg Phe Ser Ile Tyr
 65 70 75 80

Ser Gln Ile Ser Phe Met Met Phe Lys Thr Phe Thr Asp Val Lys Trp
 85 90 95

Arg Lys Gly Thr Glu Lys Lys Ile Phe Thr Lys
 100 105

<210> 4389

<211> 49

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

3990

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4389

Leu	Pro	Gly	Ser	Cys	His	Ser	Pro	Ala	Ser	Ala	Ser	Arg	Val	Ala	Gly
1				5				10					15		

Thr	Thr	Gly	Thr	Cys	His	His	Thr	Arg	Leu	Leu	Phe	Tyr	Ile	Phe	Ser
			20					25					30		

Xaa	Asp	Xaa	Phe	His	His	Val	Ser	Gln	Asp	Gly	Leu	Asp	Leu	Leu	Thr
		35					40					45			

Ser

<210> 4390

<211> 131

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (95)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (121)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4390

Pro	Gln	Ser	Val	Ala	Ala	Gly	Ser	Thr	Ala	Leu	Gly	Ser	Asp	Thr	Val
1				5				10					15		

Met	Val	Pro	Met	Ile	Gly	Gln	Asp	Leu	Xaa	Gly	Glu	Thr	Gln	Glu	Thr
			20					25					30		

Arg	Pro	Cys	Ser	Ser	Arg	Pro	Glu	Gly	Arg	Gly	Ala	Pro	Glu	Leu	Gly
		35					40					45			

Ser Gly Met Pro His Ser Leu Ala Thr Cys Phe Gly Tyr Ala Pro Cys

3991

50 55 60
 Ser Ser Cys Thr Trp Leu Pro Arg Glu Asn Ser Asp Leu Ser Gly Lys
 65 70 75 80
 Trp Ser Gln Trp Leu Cys Gly Arg Pro Phe Leu Gln Pro Gly Xaa Gln
 85 90 95
 Ser Gly Phe Pro Trp Asp Cys Val Ala Pro Val Pro Thr Gly Leu Pro
 100 105 110
 Ile Pro His Ser His Cys Trp Thr Xaa Thr Arg Thr Gly His Arg Ala
 115 120 125
 Ser Phe Cys
 130

<210> 4391
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 4391
 Lys Thr Val Leu Arg Asp Ser Leu Val Phe Gly Thr Leu Arg Ser Ser
 1 5 10 15
 Leu Gly Arg Ser Leu Ala Leu Ile Val Val Leu Lys Arg Val Leu Ser
 20 25 30
 Gly Leu Glu Pro Met Leu Ser Leu Leu Phe Met Gly Phe His Asn Ile
 35 40 45
 Leu Lys Leu Phe Val
 50

<210> 4392
 <211> 71
 <212> PRT
 <213> Homo sapiens

<400> 4392
 Val Phe Gln His Tyr Leu Phe Asp Gln Ser Lys Ile His Phe Pro Ser
 1 5 10 15
 Leu Gln Thr Glu His Asn Tyr Ser Cys Leu His Ile His Ile Phe Asp
 20 25 30

3992

Val Pro Thr Phe Cys Ile Leu His Glu Thr Phe Gly Leu Asn Lys Ile
 35 40 45

Leu Arg Ile Leu Tyr Phe Val Ser His Leu Pro Ser Cys Ser Leu Pro
 50 55 60

Ser Ser Lys Asp Val Leu Tyr
 65 70

<210> 4393

<211> 135

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (128)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4393

Ser Ser Arg Pro Gln Trp Gln Pro Cys Gly Lys Trp Pro Thr Lys Pro
 1 5 10 15

Tyr Pro Gly Ser Pro Asn Thr Leu Cys Leu Glu Pro Leu Leu Arg Val
 20 25 30

Tyr Ser Leu Arg Gly Leu Cys Gly Arg Ser Met Leu Gln Phe Lys His
 35 40 45

Val Ser Thr Thr Leu Leu Arg Ala Ala Trp Glu Arg Thr Gly His Gln
 50 55 60

Asp Tyr Leu Phe Lys Tyr Lys Lys Arg Gly Lys His Thr His Gly Lys
 65 70 75 80

Lys Ile Val Ser Thr Phe Phe Val Lys Pro Met Ser Val Leu Leu His
 85 90 95

Thr Phe His Val Val Leu Cys Lys Cys Leu Ile Cys Val Ile Lys Leu
 100 105 110

Met Gln Val Lys Lys Lys Lys Lys Met Gly Glu Val Ile Pro Cys Xaa
 115 120 125

Val Ile Ser Leu Leu Arg Val
 130 135

3993

<210> 4394

<211> 134

<212> PRT

<213> Homo sapiens

<400> 4394

Ala Thr Ala Ser Arg Thr Arg Leu Ala Val His Glu Arg Ala Arg Pro
 1 5 10 15

Gly Trp Arg Trp Gly Arg Ala Glu Ala Ala Glu Val Leu Arg Ala Thr
 20 25 30

Gly Gly Trp Gln Trp Ala Gly Glu Arg Gly Arg Gln Ala Arg Leu Gly
 35 40 45

Leu Gly Leu Trp Arg Arg Gly Thr Leu Cys Leu Gly Ser Leu Thr Ala
 50 55 60

Pro Pro Gly Ser Pro Glu Arg Gly Thr Gly Gly Glu Gly Gly Gly Ser
 65 70 75 80

Trp Ala Pro Cys Ala Ala Gly Pro Arg Gly Ala Arg Val Ala Ala Gly
 85 90 95

Ser Ala Gly Pro Asp Arg Val Asn Gly Arg Ala Trp Pro Val Pro Arg
 100 105 110

Gly Ala Pro Ala Ala Thr Ala Leu Ala Ala Gly Thr Gly Val Leu Arg
 115 120 125

Gly Arg Ser Leu Pro Phe
 130

<210> 4395

<211> 47

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

3994

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4395

Ile Lys Ile Thr Ser Ile Cys Glu Leu Asn Phe Ile Ile Cys His Phe
1 5 10 15

Val Glu Ser Thr Leu His Xaa Leu Val Xaa Leu Glu Leu Ile Val Thr
20 25 30

Thr Arg Leu Tyr Asp Asn Ser Val Leu Xaa Leu Ile Pro Ile Ile
35 40 45

<210> 4396

<211> 40

<212> PRT

<213> Homo sapiens

<400> 4396

Ile Ser Leu Asn Pro Cys Tyr Val Phe Phe Phe Ser Gln Val Leu Gln
1 5 10 15

Asn Asp Tyr Cys Thr Trp Ser Ile Val Leu Ile Val Asn Phe Val Ile
20 25 30

Asn Leu Leu Cys Val Lys Arg Gly
35 40

<210> 4397

<211> 33

<212> PRT

<213> Homo sapiens

<400> 4397

Asp Pro Arg Val Arg Pro Arg Val Arg Lys Thr Glu Arg Asp Arg Lys
1 5 10 15

Glu Lys Leu Ile Gln Glu Gly Lys Leu Asp Arg Thr Phe His Leu Ser
20 25 30

Tyr

<210> 4398

3995

<211> 439

<212> PRT

<213> Homo sapiens

<400> 4398

His Glu Gln Pro Ser Ala Pro Ser Leu Arg Pro Ala Leu Pro Ser Cys
 1 5 10 15

Pro Pro Arg Gln Arg Leu Val Phe Leu Lys Thr His Lys Ser Gly Ser
 20 25 30

Ser Ser Val Leu Ser Leu Leu His Arg Tyr Gly Asp Gln His Gly Leu
 35 40 45

Arg Phe Ala Leu Pro Ala Arg Tyr Gln Phe Gly Tyr Pro Lys Leu Phe
 50 55 60

Gln Ala Ser Arg Val Lys Gly Tyr Arg Pro Gln Gly Gly Gly Thr Gln
 65 70 75 80

Leu Pro Phe His Ile Leu Cys His His Met Arg Phe Asn Leu Lys Glu
 85 90 95

Val Leu Gln Val Met Pro Ser Asp Ser Phe Phe Phe Ser Ile Val Arg
 100 105 110

Asp Pro Ala Ala Leu Ala Arg Ser Ala Phe Ser Tyr Tyr Lys Ser Thr
 115 120 125

Ser Ser Ala Phe Arg Lys Ser Pro Ser Leu Ala Ala Phe Leu Ala Asn
 130 135 140

Pro Arg Gly Phe Tyr Arg Pro Gly Ala Arg Gly Asp His Tyr Ala Arg
 145 150 155 160

Asn Leu Leu Trp Phe Asp Phe Gly Leu Pro Phe Pro Pro Glu Lys Arg
 165 170 175

Ala Lys Arg Gly Asn Ile His Pro Pro Arg Asp Pro Asn Pro Pro Gln
 180 185 190

Leu Gln Val Leu Pro Ser Gly Ala Gly Pro Arg Ala Gln Thr Leu Asn
 195 200 205

Pro Asn Ala Leu Ile His Pro Val Ser Thr Val Thr Asp His Arg Ser
 210 215 220

Gln Ile Ser Ser Pro Ala Ser Phe Asp Leu Gly Ser Ser Ser Phe Ile
 225 230 235 240

Gln Trp Gly Leu Ala Trp Leu Asp Ser Val Phe Asp Leu Val Met Val

3996

					245						250						255
Ala	Glu	Tyr	Phe	Asp	Glu	Ser	Leu	Val	Leu	Leu	Ala	Asp	Ala	Leu	Cys		
			260					265					270				
Trp	Gly	Leu	Asp	Asp	Val	Val	Gly	Phe	Met	His	Asn	Ala	Gln	Ala	Gly		
		275					280					285					
His	Lys	Gln	Gly	Leu	Ser	Thr	Val	Ser	Asn	Ser	Gly	Leu	Thr	Ala	Glu		
	290					295					300						
Asp	Arg	Gln	Leu	Thr	Ala	Arg	Ala	Arg	Ala	Trp	Asn	Asn	Leu	Asp	Trp		
305					310					315					320		
Ala	Leu	Tyr	Val	His	Phe	Asn	Arg	Ser	Leu	Trp	Ala	Arg	Ile	Glu	Lys		
				325					330					335			
Tyr	Gly	Gln	Gly	Arg	Leu	Gln	Thr	Ala	Val	Ala	Glu	Leu	Arg	Ala	Arg		
			340					345					350				
Arg	Glu	Ala	Leu	Ala	Lys	His	Cys	Leu	Val	Gly	Gly	Glu	Ala	Ser	Asp		
		355					360					365					
Pro	Lys	Tyr	Ile	Thr	Asp	Arg	Arg	Phe	Arg	Pro	Phe	Gln	Phe	Gly	Ser		
	370					375					380						
Ala	Lys	Val	Leu	Gly	Tyr	Ile	Leu	Arg	Ser	Gly	Leu	Ser	Pro	Gln	Asp		
385					390					395					400		
Gln	Glu	Glu	Cys	Glu	Arg	Leu	Ala	Thr	Pro	Glu	Leu	Gln	Tyr	Lys	Asp		
				405					410					415			
Lys	Leu	Asp	Ala	Lys	Gln	Phe	Pro	Pro	Thr	Val	Ser	Leu	Pro	Leu	Lys		
			420					425					430				
Thr	Ser	Arg	Pro	Leu	Ser	Pro											
				435													

<210> 4399

<211> 104

<212> PRT

<213> Homo sapiens

<400> 4399

Leu	Val	Asn	Ser	Met	Thr	Pro	His	Phe	Arg	Cys	Leu	Asn	Thr	Trp	Tyr		
1				5					10					15			

Thr	Arg	Gln	Tyr	Lys	Pro	Ser	Ala	Ser	Asn	Ala	Phe	Met	Val	Cys	Gly		
			20					25					30				

3997

Val Leu Tyr Ala Thr Arg Thr Met Asn Thr Arg Thr Glu Glu Ile Phe
 35 40 45

Tyr Tyr Tyr Asp Thr Asn Thr Gly Lys Glu Gly Lys Leu Asp Ile Val
 50 55 60

Met His Lys Met Gln Glu Lys Val Gln Ser Ile Asn Tyr Asn Pro Phe
 65 70 75 80

Asp Gln Lys Leu Tyr Val Tyr Asn Asp Gly Tyr Leu Leu Asn Tyr Asp
 85 90 95

Leu Ser Val Leu Gln Lys Pro Gln
 100

<210> 4400

<211> 143

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (117)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4400

Leu Pro Ser Pro Phe Leu Glu Thr Val Ser Thr Val Asp Ser Gly Ala
 1 5 10 15

Pro Thr Asp Leu Ala Gln Leu Pro Thr Val Leu Lys Gln Pro Cys Cys
 20 25 30

Ser Val Met Ala Ser Gly Gln Phe Val Asn Lys Leu Gln Glu Glu Val
 35 40 45

Ile Cys Pro Ile Cys Leu Asp Ile Leu Gln Lys Pro Val Thr Ile Asp
 50 55 60

Cys Gly His Asn Phe Cys Leu Lys Cys Ile Thr Gln Ile Gly Glu Thr
 65 70 75 80

Ser Cys Gly Phe Phe Lys Cys Pro Leu Cys Lys Thr Ser Val Arg Lys
 85 90 95

Asn Ala Ile Arg Phe Asn Ser Leu Leu Arg Asn Leu Val Glu Lys Ile
 100 105 110

Gln Ser Ser Thr Xaa Pro Leu Arg Cys Ser Pro Lys Gly Lys Glu Ala

3998

115 120 125
 Thr Leu Pro Glu Ala Pro Gly Asp Val Pro Leu Phe Leu Arg Gly
 130 135 140

<210> 4401
 <211> 50
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (49)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 4401
 Arg Met Glu Thr Ser Val Ile Lys Asp Ile Leu Phe Leu Thr Leu Ser
 1 5 10 15
 Arg Leu Leu Thr Cys Ser Leu Asp Tyr Asn Pro Thr Cys Lys Lys Asn
 20 25 30
 Leu Lys Met Val Met Arg Lys Val Arg Tyr Ile Tyr Ile Tyr Val Leu
 35 40 45
 Xaa Phe
 50

<210> 4402
 <211> 98
 <212> PRT
 <213> Homo sapiens

<400> 4402
 Asn Ser Ala Arg Glu Arg Pro Ser Ser Val Lys Ser Leu Arg Ser Glu
 1 5 10 15
 Arg Leu Ile Arg Thr Ser Leu Asp Leu Glu Leu Asp Leu Gln Ala Thr
 20 25 30
 Arg Thr Trp His Ser Gln Leu Thr Gln Glu Ile Ser Val Leu Lys Glu
 35 40 45
 Leu Lys Glu Gln Leu Glu Gln Ala Lys Ser His Gly Glu Lys Glu Leu
 50 55 60
 Pro Gln Trp Leu Arg Glu Asp Glu Arg Phe Arg Leu Leu Leu Arg Met

3999

65 70 75 80

Leu Glu Lys Arg Met Asp Arg Ala Asp Thr Arg Val Ser Phe Arg Gln

 85 90 95

Thr Arg

<210> 4403

<211> 74

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4403

Thr Lys Phe Xaa Gly Pro Leu Asn His Leu Asn Gly Leu Pro Ser Gly

1 5 10 15

Pro Gly His Ser Lys Ile Lys Pro Glu Arg Leu Val Gln Ala Met Met

 20 25 30

Gly Ser Gly Ser Arg Thr Cys Leu Ile Ile Pro Ser Ser Ile Asn Ile

 35 40 45

Asn Thr Asp Leu Lys Ala Asp Lys Lys His Leu Gln Ser Ile Leu Ser

 50 55 60

Glu Val Phe Tyr Leu Glu Ala Ser Ser Ala

65 70

<210> 4404

<211> 305

<212> PRT

<213> Homo sapiens

<400> 4404

Pro Ser Ser His Phe Ala Ser Ile Phe Glu Glu Ser His Val Pro Val

1 5 10 15

Ile Glu Glu Ser Leu Arg Val Gln Ile Cys Glu Lys Ala Glu Glu Leu

 20 25 30

Lys Asp Ile Val Pro Glu Lys Lys Ser Thr Leu Asn Glu Asn Gln Pro

4000

35	40	45
Glu Ile Lys His Gln Ser Leu Leu Gln Lys Asn Val Ser Lys Arg Asp		
50	55	60
Pro Pro Ser Ser His Gly His Ser Asn Lys Lys Asn Leu Leu Lys Val		
65	70	75
Glu Asn Gly Val Thr Arg Arg Gly Arg Ser Val Ser Pro Lys Lys Pro		
	85	90
Ala Ser Gln His Ser Glu Glu His Leu Asp Lys Ile Pro Ser Pro Leu		
	100	105
Lys Asn Asn Pro Lys Arg Arg Pro Arg Asp Gln Ser Leu Ser Pro Ser		
	115	120
Lys Gly Glu Asn Lys Ser Cys Gln Val Ser Thr Arg Ala Gly Ser Gly		
	130	135
Gln Asp Gln Cys Arg Lys Ser Arg Val Val Ala Ser Pro Lys Lys Gln		
	145	150
Gln Lys Ile Glu Gly Ser Lys Ala Pro Ser Asn Ala Glu Ala Lys Leu		
	165	170
Leu Glu Gly Lys Ser Arg Arg Ile Ala Gly Tyr Thr Gly Ser Asn Ala		
	180	185
Glu Gln Ile Pro Asp Gly Lys Glu Lys Ser Asp Val Ile Arg Lys Asp		
	195	200
Ala Lys Gln Asn Gln Leu Glu Lys Ser Arg Thr Arg Ser Pro Glu Lys		
	210	215
Lys Ile Lys Arg Met Val Glu Lys Ser Leu Pro Ser Lys Met Thr Asn		
	225	230
Lys Thr Thr Ser Lys Glu Val Ser Glu Asn Glu Lys Gly Lys Lys Val		
	245	250
Thr Thr Gly Glu Thr Ser Ser Ser Asn Asp Lys Ile Gly Glu Asn Val		
	260	265
Gln Leu Ser Glu Lys Arg Leu Lys Gln Glu Pro Glu Glu Lys Val Val		
	275	280
Ser Asn Lys Thr Glu Asp His Lys Gly Lys Glu Leu Glu Ala Ala Val		
	290	300

Gln

4001

305

<210> 4405

<211> 71

<212> PRT

<213> Homo sapiens

<220>

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<222> (46)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4405

Ser	Ser	Asn	Arg	Phe	Val	Phe	Lys	Asp	Pro	Asn	Arg	Phe	Val	Ile	Leu
1				5					10					15	

Asn	Lys	His	Val	Ala	Ile	Tyr	Lys	Thr	Cys	Leu	Lys	Val	Leu	Leu	Ser
			20					25					30		

Pro	Trp	Asn	Phe	Phe	Leu	Tyr	Phe	Met	Leu	Ile	Tyr	Leu	Xaa	Phe	Tyr
		35					40					45			

Ser	Leu	Ile	Ile	Ala	Leu	Glu	Arg	Pro	His	His	Cys	Leu	His	Gly	Asn
	50					55					60				

Val	Val	Gly	Thr	Asn	Thr	Trp
65					70	

<210> 4406

<211> 86

<212> PRT

<213> Homo sapiens

<220>

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<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

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4002

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<220>
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<220>
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<220>
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<220>
<221> SITE
<222> (86)
<223> Xaa equals any of the naturally occurring L-amino acids

4003

<400> 4406

Ile Ser Cys Asn Tyr Cys Ser Cys Xaa Asn Ser Cys Glu Trp Leu Xaa
1 5 10 15

Val Xaa Leu Xaa Val Leu Gly Xaa Xaa Trp Tyr Thr Phe Val Gly Cys
20 25 30

Xaa Leu Lys Glu Xaa Ala Xaa Pro Val Cys Ser Leu Tyr His Thr Xaa
35 40 45

Leu Pro Leu Thr Ser Leu Gly Leu Leu Xaa Ser Lys Phe Cys Lys Pro
50 55 60

Phe Ser Gln Val Gln Arg Tyr Ile Leu Thr Leu Ser Ser Pro Xaa Leu
65 70 75 80

Leu Ser Arg Asn Phe Xaa
85

<210> 4407

<211> 34

<212> PRT

<213> Homo sapiens

<400> 4407

Ser Ala Cys Leu Gly Leu Pro Lys Cys Trp Asp Tyr Arg His Glu Pro
1 5 10 15

Pro His Val Ala His Phe Phe Phe Ile Ser Glu Phe Val Val Phe Thr
20 25 30

Leu Phe

<210> 4408

<211> 148

<212> PRT

<213> Homo sapiens

<220>

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<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

4004

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4408

Glu	Ile	Gly	Tyr	Leu	Met	Ser	Lys	Glu	Xaa	Asn	Tyr	Lys	Arg	Thr	Arg
1				5				10					15		

Glu	Tyr	Ile	Arg	Xaa	Leu	Lys	Xaa	Val	Pro	Ser	Ile	Pro	Tyr	Leu	Gly
			20					25					30		

Ile	Tyr	Leu	Leu	Xaa	Leu	Ile	Tyr	Ile	Xaa	Ser	Ala	Tyr	Pro	Ala	Ser
		35					40					45			

Gly	Val	Ile	Met	Glu	Asn	Glu	Gln	Arg	Ser	Asn	Gln	Met	Asn	Asn	Ile
	50					55					60				

Leu	Arg	Ile	Ile	Ala	Asp	Leu	Gln	Val	Ser	Cys	Ser	Tyr	Asp	His	Leu
65					70					75					80

Thr	Thr	Leu	Pro	His	Val	Gln	Lys	Tyr	Leu	Lys	Ser	Val	Arg	Tyr	Ile
				85					90					95	

Glu	Glu	Leu	Gln	Lys	Phe	Val	Glu	Asp	Asp	Asn	Tyr	Lys	Leu	Ser	Leu
		100						105					110		

Arg	Ile	Glu	Pro	Gly	Ser	Ser	Ser	Pro	Arg	Leu	Val	Ser	Ser	Lys	Glu
		115					120					125			

Asp	Leu	Ala	Gly	Pro	Ser	Ala	Gly	Ser	Gly	Ser	Ala	Arg	Phe	Ser	Arg
	130					135					140				

Arg	His	Leu	Ser
145			

<210> 4409

4005

<211> 63
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (18)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (37)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4409
Thr Pro Tyr Val Ser Leu Arg Ile Leu Tyr Asp Ser Glu Phe Ser Ile
1 5 10 15
Ser Xaa Lys Trp Ser His Phe Cys Phe Val Pro Tyr Asn Ser Thr Glu
20 25 30
Ser Phe Phe Phe Xaa Arg Lys Gly Val Gly Lys Gly Lys Trp Glu Lys
35 40 45
Thr Trp Asn His Ile Pro Leu Phe Gly Ala Ala Arg Gln Glu Phe
50 55 60

<210> 4410
<211> 83
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (39)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (56)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

4006

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (69)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4410

Ile	Xaa	Arg	Lys	Ala	Lys	Ile	Ser	Trp	Trp	Lys	Ser	Glu	Val	Thr	Arg
1				5				10					15		

Arg	Ser	Phe	Trp	Ser	Arg	Val	Leu	Met	Ser	Ala	Ala	Pro	Ala	Lys	Pro
			20					25					30		

Leu	Ala	Ser	Cys	Cys	Ala	Xaa	Tyr	Ser	Val	Ser	Lys	Ala	Arg	Ala	Ile
		35					40					45			

Gly	Gln	His	Ser	Pro	Gly	Ser	Xaa	Trp	Ala	Thr	Ser	Ala	Xaa	Phe	Phe
	50					55					60				

Phe	Phe	Phe	Gly	Xaa	Trp	Gln	Arg	His	Gly	Pro	Asn	Gly	His	His	Gln
65					70					75					80

Ser Gly Leu

<210> 4411

<211> 39

<212> PRT

<213> Homo sapiens

<400> 4411

Leu	Asn	Thr	Ser	Tyr	Leu	Tyr	Phe	Phe	Ser	Ile	Ser	Phe	His	Leu	Ser
1				5					10				15		

Val	Ser	Ser	Phe	Ser	His	Asp	Leu	Thr	Cys	Leu	Tyr	Phe	Leu	Leu	Thr
			20					25					30		

Asp	Lys	Ala	Phe	Lys	Asn	Ser
			35			

<210> 4412

<211> 78

<212> PRT

<213> Homo sapiens

4007

<400> 4412

His Phe Arg Glu Gly Gln Gly Ile Met Met Pro Ser Cys Lys Gly Ser
1 5 10 15
Leu Cys Glu Lys Lys Lys Ser Asn Asn Val Asp Phe Lys Ile Thr Lys
20 25 30
Asp Ile His Leu Gln Phe Met Lys Gly Lys Cys Ser Leu Asp Thr Lys
35 40 45
Leu Ile Lys Leu Asp Gln Glu Ile Leu Glu Leu Asn Ala Lys Asn Asn
50 55 60
Pro Cys Ile Tyr Gly Phe Asp Phe Tyr Ile Phe Pro Ala Ser
65 70 75

<210> 4413

<211> 62

<212> PRT

<213> Homo sapiens

<400> 4413

Val Pro Ile Ile Leu Lys Asn Ser His Lys Tyr Asn Lys Val His Cys
1 5 10 15
Phe Arg Val Phe Lys Lys Arg Val Val Pro Lys Ala Ile Leu Thr Leu
20 25 30
Leu Cys Tyr His Cys Lys Gly Val Ile Cys Met Tyr Tyr Ile Lys Lys
35 40 45
Lys Thr Leu Asn Ala Leu Leu Ser Pro Lys Tyr Leu Val Asn
50 55 60

<210> 4414

<211> 121

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (73)

4008

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (85)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (88)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (92)

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<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (102)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (113)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4414

Ile	Leu	Glu	Asp	Leu	Glu	Pro	Glu	Cys	Pro	Leu	Thr	Gln	Gln	Ser	His
1				5					10					15	

Tyr	Trp	Leu	Tyr	Thr	Gln	Arg	Xaa	Ile	Asn	His	Ser	Thr	Ile	Lys	Thr
			20					25					30		

Cys	Ala	Phe	Tyr	Tyr	Lys	Asp	Met	Cys	Met	Phe	Ile	Ala	Ala	Leu	Phe
		35					40					45			

Thr	Ile	Ala	Lys	Thr	Trp	Asn	Gln	Pro	Lys	Cys	Pro	Ser	Met	Ile	Asp
	50					55					60				

Trp	Ile	Lys	Lys	Thr	Trp	His	Ile	Xaa	Thr	Met	Glu	Tyr	Tyr	Ala	Ala
65					70					75					80

Ile	Lys	Lys	Asn	Xaa	Phe	Met	Xaa	Phe	Ala	Gly	Xaa	Trp	Met	Lys	Xaa
			85						90					95	

4009

Glu Thr Ile Ile Leu Xaa Lys Leu Thr Gln Glu Gln Lys Thr Lys His
 100 105 110

Xaa Met Leu Ser Leu Ile Ser Gly Ser
 115 120

<210> 4415
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 4415
 Pro Leu Leu Gly Ile Tyr Leu Arg Lys Asn Lys Ala Tyr Ile His Met
 1 5 10 15

Lys Thr Cys Lys
 20

<210> 4416
 <211> 82
 <212> PRT
 <213> Homo sapiens

<400> 4416
 Leu Pro Val Leu Trp Leu Gly Pro Ser Leu Ser Thr Ser Gly Glu Cys
 1 5 10 15

Met Cys Leu Ser Asp Gln His His Cys Thr Arg Arg Ser Ser Glu Pro
 20 25 30

Leu Ala Lys Cys His Thr His Ser Ser Gln Arg Arg Asp Glu Leu Lys
 35 40 45

Leu Tyr Ser Glu Ile Met Lys Pro Glu Pro Val Pro Asp Leu Leu Leu
 50 55 60

Pro Leu Ile Glu Leu Leu Cys Asn Ser Lys Phe Lys Ile Arg Ser Arg
 65 70 75 80

Glu Arg

<210> 4417
 <211> 151
 <212> PRT

4010

<213> Homo sapiens

<220>

<221> SITE

<222> (146)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4417

Gly	Thr	Ser	Ala	Gly	Ala	Gln	Thr	Lys	Gly	Ala	Leu	Cys	Gln	Leu	Lys
1				5					10					15	

Val	Pro	Thr	Glu	Lys	Leu	Pro	Ser	Pro	Leu	Pro	Thr	Met	Ala	Asp	Glu
			20					25					30		

Ile	Asp	Phe	Thr	Thr	Gly	Asp	Ala	Gly	Ala	Ser	Ser	Thr	Tyr	Pro	Met
		35					40					45			

Gln	Cys	Ser	Ala	Leu	Arg	Lys	Asn	Gly	Phe	Val	Val	Leu	Lys	Gly	Arg
	50					55					60				

Pro	Cys	Lys	Ile	Val	Glu	Met	Ser	Thr	Ser	Lys	Thr	Gly	Lys	His	Gly
65					70					75					80

His	Ala	Lys	Val	His	Leu	Val	Gly	Ile	Asp	Ile	Phe	Thr	Gly	Lys	Lys
				85					90					95	

Tyr	Glu	Asp	Ile	Cys	Pro	Ser	Thr	His	Asn	Met	Asp	Val	Pro	Asn	Ile
			100					105					110		

Lys	Arg	Asn	Asp	Tyr	Gln	Leu	Ile	Cys	Ile	Gln	Asp	Gly	Tyr	Leu	Ser
		115					120					125			

Leu	Leu	Thr	Glu	Thr	Gly	Glu	Val	Arg	Glu	Asp	Leu	Lys	Leu	Pro	Glu
	130					135					140				

Gly	Xaa	Thr	Arg	Gln	Arg	Lys
145					150	

<210> 4418

<211> 75

<212> PRT

<213> Homo sapiens

<400> 4418

Asp	Glu	Glu	Thr	Val	Lys	Thr	Pro	Arg	Lys	Lys	Thr	Cys	Val	His	Phe
1				5					10					15	

Ser	Gly	Lys	Phe	Ser	Asn	Cys	Val	Ile	Gln	Phe	Ser	Phe	Asn	Tyr	Ile
			20					25					30		

4011

Ile Trp Leu Tyr Ala Leu Lys Asn Ile Cys Leu Asn Val Pro Gly Phe
 35 40 45

Leu Leu Val Leu Glu Ser Ala Glu Cys Trp Leu Cys Ser His Ser Tyr
 50 55 60

Phe Cys Ile Gln Lys Gly Val Thr Pro Phe Ile
 65 70 75

<210> 4419
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 4419
 Val Lys Ala Thr Cys Leu Gly Phe Leu Asn His Ile Asn Cys Tyr Ile
 1 5 10 15

Leu Tyr Phe Ile Ile Ile Leu Cys Val Ser Val Tyr Trp Asn Asn Met
 20 25 30

Phe Tyr Leu Val Ser Trp Cys Lys Ser Phe Leu Asn Leu Leu Leu Tyr
 35 40 45

<210> 4420
 <211> 38
 <212> PRT
 <213> Homo sapiens

<400> 4420
 Tyr Ala Ser Ser Lys Leu Thr Leu Thr Lys Gly Asn Lys Ser Trp Ser
 1 5 10 15

Ser Thr Ala Val Ala Ala Ala Leu Glu Leu Val Asp Pro Pro Gly Cys
 20 25 30

Arg Asn Ser Ala Arg Val
 35

<210> 4421
 <211> 59

4012

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4421

Ser	Cys	Gln	Ser	Leu	Asp	Xaa	Glu	Val	Ser	Gly	Lys	Ser	Leu	Lys	Tyr
1				5					10				15		

Ala	Phe	Asp	Thr	Gly	Lys	Tyr	Ile	Leu	Leu	Met	Phe	His	Lys	Arg	Ile
			20					25					30		

Leu	Glu	Ser	Val	Glu	Asn	Ile	Asn	Tyr	Phe	His	Glu	Leu	Phe	Leu	Lys
		35					40					45			

Tyr	Asn	Phe	Lys	Val	Leu	Ile	Phe	Leu	Phe	Lys					
	50					55									

<210> 4422

<211> 68

<212> PRT

<213> Homo sapiens

<400> 4422

Glu	Val	Ile	Gln	Ile	Thr	Phe	Val	Val	Val	Ile	Phe	Asn	Tyr	Ser	Ser
1				5					10					15	

Thr	Leu	Thr	His	Asp	Glu	Leu	Arg	Asn	Ile	Lys	Asp	Asn	Cys	Cys	Leu
			20					25					30		

Asn	Ser	Thr	Pro	Arg	Asp	Thr	Asp	Leu	Ile	Gly	Leu	Gly	Trp	Arg	Ser
		35					40					45			

Gly	Met	Val	Val	Phe	Phe	Lys	Leu	Gln	Ser	Ser	Ala	Arg	Gln	Leu	Leu
	50					55					60				

Tyr	Val	Gly	Phe												
	65														

<210> 4423

<211> 160

<212> PRT

<213> Homo sapiens

4013

<220>
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 <222> (56)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (59)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (63)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (69)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (158)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 4423
 Gly Pro Gly Lys Arg Arg Leu Gln Gly Arg Ser Arg Gly His Met Ala
 1 5 10 15
 Glu Gly Asp Ala Arg Ser Asp Gln Arg His Asn Glu Glu Ile Glu Ala
 20 25 30
 Met Ala Pro Ile Tyr Gly Glu Glu Trp Cys Val Ile Asp Asp Cys Ala
 35 40 45
 Lys Ile Phe Cys Ile Arg Ile Xaa Asp Asp Xaa Asp Asp Pro Xaa Trp
 50 55 60
 Thr Leu Cys Leu Xaa Val Met Leu Pro Asn Glu Tyr Pro Gly Thr Ala
 65 70 75 80
 Pro Pro Ile Tyr Gln Leu Asn Ala Pro Trp Leu Lys Gly Gln Glu Arg
 85 90 95
 Ala Asp Leu Ser Asn Ser Leu Glu Glu Ile Tyr Ile Gln Asn Ile Gly
 100 105 110

4014

Glu Ser Ile Leu Tyr Leu Trp Val Glu Glu Asn Lys Arg Cys Ser Tyr
115 120 125

Tyr Lys Asn Leu Gln Val Thr Glu Pro Gly Pro Asp Val Lys Gly Gly
130 135 140

Lys	Leu	Xaa	Glu	Glu	Asp	Val	Gly	Met	Trp	Lys	Val	Asp	Xaa	His	Phe
145					150					155					160

<210> 4424

<211> 70

<212> PRT

<213> Homo sapiens

 $\langle 220 \rangle$

<221> SITE

$\langle 222 \rangle$ (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4424

Gly Leu Thr Ile Lys Xaa Ile Glu Lys Glu Thr Leu His Gly Met Ser
1 5 10 15

Phe Ile Pro Pro Pro Asn Lys Val Leu Lys Val Phe Ile Leu Pro Ser
20 25 30

Ile Phe Leu Lys Leu Phe Tyr Lys Arg Asp Phe Val Glu Val Pro Arg
35 40 45

Phe Cys Gln Thr Ser Ser Ser Leu Thr Arg Leu Arg Gly Pro Cys Gln
50 55 60

Gln Ser Asn Leu Arg Asp
65 70

<210> 4425

<211> 262

<212> PRT

<213> Homo sapiens

<400> 4425

Asp Ser His Gln Ala Arg Ser Arg Arg Leu Glu Ala Leu Trp Ser Pro
1 5 10 15

4015

Ser Leu Gly Glu Val Ser Ser Ser Thr Met Lys Gly Ile Leu Val Ala
 20 25 30
 Gly Ile Thr Ala Val Leu Val Ala Ala Val Glu Ser Leu Ser Cys Val
 35 40 45
 Gln Cys Asn Ser Trp Glu Lys Ser Cys Val Asn Ser Ile Ala Ser Glu
 50 55 60
 Cys Pro Ser His Ala Asn Thr Ser Cys Ile Ser Ser Ser Ala Ser Ser
 65 70 75 80
 Ser Leu Glu Thr Pro Val Arg Leu Tyr Gln Asn Met Phe Cys Ser Ala
 85 90 95
 Glu Asn Cys Ser Glu Glu Thr His Ile Thr Ala Phe Thr Val His Val
 100 105 110
 Ser Ala Glu Glu His Phe His Phe Val Ser Gln Cys Cys Gln Gly Lys
 115 120 125
 Glu Cys Ser Asn Thr Ser Asp Ala Leu Asp Pro Pro Leu Lys Asn Val
 130 135 140
 Ser Ser Asn Ala Glu Cys Pro Ala Cys Tyr Glu Ser Asn Gly Thr Ser
 145 150 155 160
 Cys His Gly Lys Pro Trp Lys Cys Tyr Glu Glu Glu Gln Cys Val Phe
 165 170 175
 Leu Val Ala Glu Leu Lys Asn Asp Ile Glu Ser Lys Ser Leu Val Leu
 180 185 190
 Lys Gly Cys Ser Asn Val Ser Asn Ala Thr Cys Gln Phe Leu Ser Gly
 195 200 205
 Glu Asn Lys Thr Leu Gly Gly Val Ile Phe Arg Lys Phe Glu Cys Ala
 210 215 220
 Asn Val Asn Ser Leu Thr Pro Thr Ser Ala Pro Thr Thr Ser His Asn
 225 230 235 240
 Val Gly Ser Lys Ala Ser Leu Tyr Leu Leu Ala Leu Ala Ser Leu Leu
 245 250 255
 Leu Arg Gly Leu Leu Pro
 260

4016

<210> 4426

<211> 71

<212> PRT

<213> Homo sapiens

<400> 4426

Gln	Leu	Lys	His	Val	Phe	Ser	Gln	Glu	Lys	Met	Thr	Val	Leu	Met	Met
1				5					10				15		

Tyr	Leu	Met	Asn	Leu	Asn	Phe	Lys	Ser	Gly	Ala	Ala	Asn	Trp	Lys	Glu
			20					25					30		

Asp	Leu	Trp	Cys	Phe	Lys	Leu	Leu	Trp	Thr	Leu	Leu	Arg	Asn	Leu	Glu
		35					40					45			

Pro	Met	Glu	Pro	Leu	Phe	Ile	Ala	Met	Gln	Ile	Thr	Ile	Leu	Asn	Glu
	50					55					60				

Cys	Phe	Leu	Lys	Ile	Lys	Tyr
65					70	

<210> 4427

<211> 97

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4427

Ser	Leu	Lys	Pro	Ser	Glu	Lys	Asn	Ile	Phe	Thr	Leu	Phe	Met	Val	Ala
1				5					10				15		

Thr	Ala	Ala	Ile	Cys	Ile	Leu	Leu	Asn	Xaa	Val	Glu	Xaa	Ile	Tyr	Leu
			20					25					30		

Xaa	Ser	Lys	Arg	Cys	His	Glu	Cys	Leu	Ala	Ala	Arg	Lys	Ala	Gln	Ala
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

35 40 45

Pro Pro Leu Leu Pro Asp Arg Pro Arg Asp His Val Lys Lys Thr Ile
85 90 95

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<210> 4428
<211> 353
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (17)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (39)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (55)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (75)
<223> Xaa equals any of the naturally occurring L-amino acids

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Pro Gly Thr Pro Ser Asp Xaa His Pro Leu Gln Pro Trp Gly Ser Leu
35 40 45

4018

Arg	Val	Ala	Ala	Lys	Ala	Xaa	Cys	Leu	Ser	Ala	Ser	Ala	Leu	Ala	Val	50	55	60	
Ile	Ala	His	Val	Leu	Cys	Cys	Cys	Ser	Val	Xaa	Thr	Met	Ser	Lys	Ser	65	70	75	80
Leu	Lys	Lys	Leu	Val	Glu	Glu	Ser	Arg	Glu	Lys	Asn	Gln	Pro	Glu	Val	85	90	95	
Asp	Met	Ser	Asp	Arg	Gly	Ile	Ser	Asn	Met	Leu	Asp	Val	Asn	Gly	Leu	100	105	110	
Phe	Thr	Leu	Ser	His	Ile	Thr	Gln	Leu	Val	Leu	Ser	His	Asn	Lys	Leu	115	120	125	
Thr	Met	Val	Pro	Pro	Asn	Ile	Ala	Glu	Leu	Lys	Asn	Leu	Glu	Val	Leu	130	135	140	
Asn	Phe	Phe	Asn	Asn	Gln	Ile	Glu	Glu	Leu	Pro	Thr	Gln	Ile	Ser	Ser	145	150	155	160
Leu	Gln	Lys	Leu	Lys	His	Leu	Asn	Leu	Gly	Met	Asn	Arg	Leu	Asn	Thr	165	170	175	
Leu	Pro	Arg	Gly	Phe	Gly	Ser	Leu	Pro	Ala	Leu	Glu	Val	Leu	Asp	Leu	180	185	190	
Thr	Tyr	Asn	Asn	Leu	Ser	Glu	Asn	Ser	Leu	Pro	Gly	Asn	Phe	Phe	Tyr	195	200	205	
Leu	Thr	Thr	Leu	Arg	Ala	Leu	Tyr	Leu	Ser	Asp	Asn	Asp	Phe	Glu	Ile	210	215	220	
Leu	Pro	Pro	Asp	Ile	Gly	Lys	Leu	Thr	Lys	Leu	Gln	Ile	Leu	Ser	Leu	225	230	235	240
Arg	Asp	Asn	Asp	Leu	Ile	Ser	Leu	Pro	Lys	Glu	Ile	Gly	Glu	Leu	Thr	245	250	255	
Gln	Leu	Lys	Glu	Leu	His	Ile	Gln	Gly	Asn	Arg	Leu	Thr	Val	Leu	Pro	260	265	270	
Pro	Glu	Leu	Gly	Asn	Leu	Asp	Leu	Thr	Gly	Gln	Lys	Gln	Val	Phe	Lys	275	280	285	
Ala	Glu	Asn	Asn	Pro	Trp	Val	Thr	Pro	Ile	Ala	Asp	Gln	Phe	Gln	Leu	290	295	300	
Gly	Val	Ser	His	Val	Phe	Glu	Tyr	Ile	Arg	Ser	Glu	Thr	Tyr	Lys	Tyr	305	310	315	320

[illegible]

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<400> 4429
Gly Thr Arg Gln Asn Gly Pro Ala Ser His Ser Arg Ala Leu Val Gly
 1             5             10             15
Ile Cys Thr Gly His Ser Asn Pro Gly Glu Asp Ala Arg Asp Gly Asp
          20             25             30
.
Ala Glu Glu Val Arg Glu Leu Gly Thr Val Glu Glu Asn
      35             40             45

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<400> 4430
Phe Leu His Leu Pro Ala Ile Phe Ser Gln Thr Phe Leu Arg Val Arg
  1                      5                      10                      15
Ala Asn Arg Gln Thr Arg Leu Asn Ala Arg Ile Gly Lys Met Lys Arg
      20                      25                      30
Arg Lys Gln Asp Glu Gly Gln Arg Glu Gly Ser Cys Met Ala Glu Asp
      35                      40                      45
Asp Ala Val Asp Ile Glu His Glu Asn Asn Asn Arg Phe Glu Glu Tyr
      50                      55                      60
Glu Trp Cys Gly Gln Lys Arg Ile Arg Ala Thr Thr Leu Leu Glu Gly
      65                      70                      75                      80
Gly Phe Arg Gly Ser Gly Phe Ile Met Cys Ser Gly Lys Glu Asn Pro
      85                      90                      95

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4020

Asp Ser Asp Ala Asp Leu Asp Val Asp Gly Asp Asp Thr Leu Glu Tyr
 100 105 110

Gly Glu Ala Thr Ile His Arg Gly
 115 120

<210> 4431

<211> 244

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (173)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (212)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (221)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (232)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4431

Leu Leu Asp Arg Tyr Arg Glu Leu Gln Leu Ser Thr Glu Ser Lys Val
 1 5 10 15

Thr Glu Phe Leu His Gln Ser Lys Leu Lys Ser Phe Glu Ser Glu Arg
 20 25 30

Val Gln Leu Leu Gln Glu Glu Thr Ala Arg Asn Leu Thr Gln Cys Gln
 35 40 45

Leu Glu Cys Glu Lys Tyr Gln Lys Lys Leu Glu Val Leu Thr Lys Glu
 50 55 60

4021

Phe Tyr Xaa Leu Gln Ala Ser Ser Glu Lys Arg Ile Thr Glu Leu Gln
 65 70 75 80
 Ala Gln Asn Ser Glu His Gln Ala Arg Leu Asp Ile Tyr Glu Lys Leu
 85 90 95
 Glu Lys Glu Leu Asp Glu Ile Ile Met Gln Thr Ala Glu Ile Glu Asn
 100 105 110
 Glu Asp Glu Ala Glu Arg Val Leu Phe Ser Tyr Gly Tyr Gly Ala Asn
 115 120 125
 Val Pro Thr Thr Ala Lys Arg Arg Leu Lys Gln Ser Val His Leu Ala
 130 135 140
 Arg Arg Val Leu Gln Leu Glu Lys Gln Asn Ser Leu Ile Leu Lys Asp
 145 150 155 160
 Leu Glu His Arg Lys Asp Gln Val Thr Gln Leu Ser Xaa Glu Leu Asp
 165 170 175
 Arg Ala Asn Ser Leu Leu Asn Gln Thr Gln Gln Pro Tyr Arg Tyr Leu
 180 185 190
 Ile Glu Ser Val Arg Gln Arg Asp Ser Lys Ile Asp Ser Leu Thr Glu
 195 200 205
 Ser Ile Ala Xaa Leu Gly Glu Arg Met Ser Ala Thr Xaa Asn Lys Glu
 210 215 220
 Lys Ser Ala Leu Leu Gln Thr Xaa Gly Ile Lys Met Ala Leu Gly Phe
 225 230 235 240
 Arg Thr Asn Phe

<210> 4432

<211> 96

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

4022

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4432

Ser	Ser	Cys	Cys	Ala	Ser	Leu	Pro	Pro	Thr	Arg	Gly	Glu	Val	Ser	Ala
1				5					10					15	

Xaa	Ser	Leu	Leu	Pro	Pro	Leu	Pro	Pro	Leu	Pro	Pro	Trp	Thr	Ile	Ser
			20					25					30		

Leu	Phe	Pro	Leu	Cys	Ser	Trp	Xaa	Ala	Gln	Leu	Cys	Met	Cys	Val	Trp
		35					40					45			

Gly	Val	Gly	Val	Gly	Ser	Gly	Leu	Ser	Gly	Phe	Gly	Arg	Gly	Leu	Gly
	50					55					60				

Arg	Val	Arg	Gly	Gly	Trp	Arg	Met	Lys	Ser	Pro	Thr	Pro	Phe	Ser	Ser
65					70					75					80

Ser	Arg	Pro	Gln	Lys	Pro	Gly	Lys	Gly	Arg	Val	Pro	Thr	Leu	Gly	Xaa
				85					90					95	

<210> 4433

<211> 86

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (78)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4433

Asn	Arg	Ser	Phe	Phe	Val	Ser	Pro	Phe	Lys	Ser	Thr	Gly	Phe	Lys	Arg
1				5					10					15	

Gly	Lys	Cys	Ile	His	Arg	Pro	Gln	Cys	Leu	Ala	Phe	Ser	Ser	Ala	Ser
			20					25					30		

Thr	Trp	Ser	Thr	Gly	Leu	Asp	Ala	Gln	Thr	Tyr	Leu	Gly	Asn	Tyr	Phe
		35					40					45			

4023

Gly Arg Cys Leu Ser Leu Tyr Arg Asn Cys Ser Trp Tyr Phe Ile Leu
 50 55 60

Leu Tyr Ile Tyr Ser Thr Cys Pro Leu Val Phe Asn Tyr Xaa Gln Ser
 65 70 75 80

Leu Phe Arg Ser Lys Asn
 85

<210> 4434

<211> 254

<212> PRT

<213> Homo sapiens

<400> 4434

Lys Ala Leu Asn Val Val Gln Ser Val Leu Gln Ile Asn Leu Ser Asn
 1 5 10 15

Ser Thr Asn Arg Gly Ser Val Ala Ala Lys Lys Phe Lys Asp Ile Ile
 20 25 30

His Tyr Asp Pro Thr Lys Gln Asp His Ala Thr Tyr Glu Arg Lys Arg
 35 40 45

Asp Asp Lys Pro Lys Glu Ser Lys Ala Lys Arg Lys Lys Lys Arg Glu
 50 55 60

Glu Ala Glu Lys Leu Pro Glu Val Ser Lys Glu Met Tyr Tyr Asn Ile
 65 70 75 80

Ala Met Asp Leu Lys Glu Ile Phe Gln Thr Thr Lys Tyr Thr Ser Glu
 85 90 95

Lys Glu Glu Gly Thr Pro Trp Asn Glu Asp Cys Gly Lys Glu Lys Pro
 100 105 110

Glu Glu Ile Gln Asp Pro Ala Ala Leu Thr Ser Asp Ala Glu Gln Pro
 115 120 125

Ser Gly Phe Thr Phe Ser Phe Phe Asp Ser Asp Thr Lys Asp Ile Lys
 130 135 140

Glu Glu Thr Tyr Arg Val Glu Thr Val Lys Pro Gly Lys Ile Val Trp
 145 150 155 160

Gln Glu Asp Pro Arg Leu Gln Asp Ser Ser Ser Glu Glu Glu Asp Val
 165 170 175

4024

Thr Glu Glu Thr Asp His Arg Asn Ser Ser Pro Gly Glu Ala Ser Leu
 180 185 190

Leu Glu Lys Glu Thr Thr Arg Phe Phe Phe Phe Ser Lys Asn Asp Glu
 195 200 205

Arg Leu Gln Gly Ser Asp Leu Phe Trp Arg Gly Val Gly Ser Asn Met
 210 215 220

Ser Arg Asn Ser Trp Glu Ala Arg Thr Thr Asn Leu Arg Met Asp Cys
 225 230 235 240

Arg Lys Lys His Lys Asp Ala Lys Arg Lys Met Lys Pro Lys
 245 250

<210> 4435

<211> 75

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4435

Leu Leu Asn Leu Val Lys Ala Val Phe Gly Gln Ala Cys Ala Arg Gly
 1 5 10 15

His Leu Glu Cys Ser Thr His Trp Gln Ala Ser Pro Ile Pro Ile His
 20 25 30

Pro Gly Ser Pro Arg Leu Gly Trp Asp Ile Asn Val Gly Ile Gly Lys
 35 40 45

Lys Tyr Phe Leu Phe Arg Gly Lys Gln Glu Glu Thr Leu Pro Glu Ser
 50 55 60

Asp Phe Leu Val Ile Ser Ile Ser Thr Glu Xaa
 65 70 75

<210> 4436

<211> 47

<212> PRT

<213> Homo sapiens

<220>

4025

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4436

Lys Leu Ile Arg Asp Xaa Ala Thr Asp Ser Leu Arg Ser Pro Ala Leu
 1 5 10 15

Pro Leu Asn Lys Cys Trp Cys Ile Gln Met Val Lys Tyr Ser Ala Ala
 20 25 30

Ile Lys Gly Val Lys Thr Ala Ser Thr Tyr Leu Glu Ala His Leu
 35 40 45

<210> 4437

<211> 220

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4437

Gly Xaa Asp Thr Leu Glu Ile Gln Gln Gln Ala Leu Leu Arg Glu Gln
 1 5 10 15

Gln Lys Arg Leu Asn Arg Ile Lys Met Gln Glu Gly Ala Lys Val Asp
 20 25 30

Leu Asp Ala Ile Pro Ser Ala Lys Val Arg Glu Gln Arg Met Pro Arg
 35 40 45

Asp Asp Thr Ser Asp Phe Leu Lys Asn Ser Leu Leu Glu Ser Asp Ser
 50 55 60

Ala Phe Ile Gly Ala Tyr Gly Glu Thr Tyr Pro Ala Ile Glu Asp Asp
 65 70 75 80

Val Leu Pro Pro Pro Ser Gln Leu Pro Ser Ala Arg Glu Arg Arg Arg
 85 90 95

Asn Lys Trp Lys Gly Leu Asp Ile Asp Ser Ser Arg Pro Asn Val Ala
 100 105 110

Pro Asp Gly Leu Ser Leu Lys Ser Ile Ser Ser Val Asn Val Asp Glu
 115 120 125

4026

Leu Arg Val Arg Asn Glu Glu Arg Met Arg Arg Leu Asn Glu Phe His
 130 135 140
 Asn Lys Pro Ile Asn Thr Asp Asp Glu Ser Ser Leu Val Asp Pro Asp
 145 150 155 160
 Asp Ile Met Lys His Ile Gly Asp Asp Gly Ser Asn Ser Val Ala Thr
 165 170 175
 Glu Pro Trp Leu Arg Pro Gly Thr Ser Glu Thr Leu Lys Arg Phe Met
 180 185 190
 Ala Glu Gln Leu Asn Gln Glu Gln Gln Ile Pro Gly Lys Pro Gly
 195 200 205
 Thr Phe Thr Trp Gln Gly Leu Ser Thr Ala His Gly
 210 215 220

<210> 4438

<211> 44

<212> PRT

<213> Homo sapiens

<400> 4438

Asn Gly Gly Asn Gly Asn Thr Tyr Leu Lys Leu Leu Arg Glu Leu Asn
 1 5 10 15
 Glu Ile Ile Leu Gln Asp Ser Tyr His Ser Lys Ala Val Asn Ala Pro
 20 25 30
 Phe Arg Val Pro Leu Leu Leu Thr Ala Leu Lys Ile
 35 40

<210> 4439

<211> 47

<212> PRT

<213> Homo sapiens

<400> 4439

Tyr Ser Thr Leu Leu Glu Lys Pro Pro Pro Ser Pro Asp Arg Cys Glu
 1 5 10 15
 Arg Met Lys Val Thr Met Phe Cys Leu Arg Phe Ser Arg Phe Lys Leu
 20 25 30
 Leu Leu Ser Ser Val Ser Arg Asp Phe His Cys Trp Ala Cys Leu
 35 40 45

4027

<210> 4440

<211> 57

<212> PRT

<213> Homo sapiens

<400> 4440

Leu Leu Glu Val Pro Glu Met Gly Leu Thr Phe Ile Lys Gln Ile Ala
 1 5 10 15

Tyr Tyr Asp Leu Ala Ala Ala Thr Val Gln Leu His Ile Asn Ser Thr
 20 25 30

Asp Gln Thr Ile Cys Ile Trp His His Leu Leu Thr His Asp Met Arg
 35 40 45

Leu Phe Cys Ile Asn Cys Tyr Asp Gly
 50 55

<210> 4441

<211> 96

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (93)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4441

Val Val Glu Tyr Arg Ala Val Asn Phe His Ala Phe Phe Pro Asp Ile
 1 5 10 15

Lys Phe Tyr Ser Lys Lys Ala Thr Ser Asp Cys Thr Lys Asn Ile Lys
 20 25 30

Ile His Ser Phe Tyr Lys Gly Val Asn Leu Asn Asn Val Ile Asp Trp
 35 40 45

Asn Met Lys Ile Asn Gln Ser Phe Lys Ser Phe Leu Ala Asn Asp Pro
 50 55 60

4028

Ile Leu Thr Pro Phe Leu Pro Arg Leu Glu Lys His Asn Val Phe Pro
 65 70 75 80

Pro Lys Val Xaa Asn Pro Arg Lys Ala Pro Val Ser Xaa Thr Asn Val
 85 90 95

<210> 4442

<211> 155

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (122)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (143)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4442

Asn Ser Ala Ser Gln Arg Ser Ser Ser Leu Pro Pro Ser Asn Arg Lys
 1 5 10 15

Ser Ser Thr Pro Lys Lys Thr Tyr Ser Glu Lys Ala Thr Asp Asn His
 20 25 30

Val Asn His Ser Ser Cys Pro Glu Pro Val Pro Asn Gly Val Lys Lys
 35 40 45

Val Ser Val Arg Thr Ala Trp Glu Lys Asn Lys Ser Val Ser Tyr Glu
 50 55 60

Gln Cys Lys Pro Val Ser Val Thr Pro Gln Gly Asn Asp Phe Glu Tyr
 65 70 75 80

Thr Ala Lys Ile Arg Thr Leu Ala Glu Thr Glu Arg Phe Phe Asp Glu
 85 90 95

Leu Thr Lys Glu Lys Asp Gln Ile Glu Ala Ala Leu Ser Arg Met Pro
 100 105 110

Ser Pro Gly Gly Arg Ile Thr Leu Gln Xaa Arg Leu Asn Gln Glu Ala
 115 120 125

4029

Leu Glu Asp Arg Leu Glu Gly Leu Ile Glu Asn Trp Gly Ser Xaa Arg
 130 135 140

Met Thr Leu Lys Asn Ser Met Phe Cys Ala Pro
 145 150 155

<210> 4443

<211> 97

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (93)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (97)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4443

Ile Arg Glu Thr Phe Ser Ile Tyr Leu Phe Val Leu Pro Ala Trp Glu
 1 5 10 15

Ser Asp Ser Thr Lys Tyr Phe Pro Ala Gly Trp Gly Ser Val Ser Gln
 20 25 30

Arg Asn His Pro Phe Pro Thr Phe Arg Leu Ile Leu Tyr Pro Ser Ile
 35 40 45

Xaa Pro Val Leu Met Glu Ala Lys Asp Asn Pro Arg Val Phe Ile Gly
 50 55 60

Asn Ser Leu Glu Leu Cys Ala Ile Val Phe Val Val Leu Leu Pro Phe
 65 70 75 80

Phe Phe Leu Asn Ile Tyr Val Gly Asn Ser Ile Cys Xaa Gly Ile Leu
 85 90 95

Xaa

4030

<210> 4444

<211> 161

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4444

Thr	Glu	Thr	Cys	Phe	Ala	Trp	Trp	Met	Ser	Ala	Ser	Ser	Pro	Arg	Arg
1				5				10					15		

Pro	Ser	Ser	Glu	Thr	Pro	Ala	Ala	Pro	Thr	Cys	Phe	Leu	Arg	Ser	Ser
			20					25					30		

Ala	Ala	Ala	Val	Thr	Ser	Ala	Ala	Thr	Trp	Xaa	Leu	Cys	Lys	Asp	Ser
			35					40					45		

Ser	Phe	Ser	Glu	Asp	Gly	Ala	Val	Leu	Pro	Gln	Trp	Leu	Cys	Ser	Asn
	50					55					60				

Cys	Gln	Ala	Pro	Tyr	Asp	Ser	Ser	Ala	Ile	Glu	Met	Thr	Leu	Val	Glu
65					70					75					80

Val	Leu	Gln	Lys	Lys	Leu	Met	Ala	Phe	Thr	Leu	Gln	Asp	Leu	Val	Cys
				85					90					95	

Leu	Lys	Cys	Arg	Gly	Val	Lys	Glu	Thr	Ser	Met	Pro	Val	Tyr	Cys	Ser
			100					105					110		

Cys	Ala	Gly	Asp	Phe	Ala	Leu	Thr	Ile	His	Thr	Gln	Val	Phe	Met	Glu
		115					120					125			

Gln	Ile	Gly	Ile	Phe	Arg	Asn	Ile	Ala	Gln	His	Tyr	Gly	Met	Ser	Tyr
	130					135					140				

Leu	Leu	Glu	Thr	Leu	Glu	Trp	Leu	Leu	Gln	Lys	Asn	Pro	Gln	Leu	Gly
145					150					155					160

His

<210> 4445

<211> 112

<212> PRT

<213> Homo sapiens

4031

<220>
 <221> SITE
 <222> (77)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (89)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 4445
 Asn Val Phe Val Val Thr Asp Phe Gln Asp Ser Val Phe Asn Asp Leu
 1 5 10 15
 Tyr Lys Ala Asp Cys Arg Val Ile Gly Pro Pro Val Val Leu Asn Cys
 20 25 30
 Ser Gln Lys Gly Glu Pro Leu Pro Phe Ser Cys Arg Pro Leu Tyr Cys
 35 40 45
 Thr Ser Met Met Asn Leu Val Leu Cys Phe Thr Gly Phe Arg Lys Lys
 50 55 60
 Glu Glu Leu Val Arg Leu Val Thr Leu Val His His Xaa Gly Gly Val
 65 70 75 80
 Ile Arg Lys Asp Phe Asn Ser Lys Xaa Thr His Leu Val Ala Ile Val
 85 90 95
 His Lys Glu Lys Ile Gln Gly Cys Cys Glu Ser Arg Tyr Ser Ile Met
 100 105 110

<210> 4446
 <211> 254
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (105)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 4446
 Ala Glu Asp Pro Ala Gly Gly Leu Ala Gly Gln Asp Thr Met Phe Ala
 1 5 10 15

4032

Arg Gly Leu Lys Arg Lys Cys Val Gly His Glu Glu Asp Val Glu Gly
 20 25 30
 Ala Leu Ala Gly Leu Lys Thr Val Ser Ser Tyr Ser Leu Gln Arg Gln
 35 40 45
 Ser Leu Leu Asp Met Ser Leu Val Lys Leu Gln Leu Cys His Met Leu
 50 55 60
 Val Glu Pro Asn Leu Cys Arg Ser Val Leu Ile Ala Asn Thr Val Arg
 65 70 75 80
 Gln Ile Gln Glu Glu Met Thr Gln Asp Gly Thr Trp Arg Thr Val Ala
 85 90 95
 Pro Gln Ala Ala Glu Arg Ala Pro Xaa Asp Arg Leu Val Ser Thr Glu
 100 105 110
 Ile Leu Cys Arg Ala Ala Trp Gly Gln Glu Gly Ala His Pro Ala Pro
 115 120 125
 Gly Leu Gly Asp Gly His Thr Gln Gly Pro Val Ser Asp Leu Cys Pro
 130 135 140
 Val Thr Ser Ala Gln Ala Pro Arg His Leu Gln Ser Ser Ala Trp Glu
 145 150 155 160
 Met Asp Gly Pro Arg Glu Asn Arg Gly Ser Phe His Lys Ser Leu Asp
 165 170 175
 Gln Ile Phe Glu Thr Leu Glu Thr Lys Asn Pro Ser Cys Met Glu Glu
 180 185 190
 Leu Phe Ser Asp Val Asp Ser Pro Tyr Tyr Asp Leu Asp Thr Val Leu
 195 200 205
 Thr Gly Met Met Gly Gly Ala Arg Pro Gly Pro Cys Glu Gly Leu Glu
 210 215 220
 Gly Leu Ala Pro Ala Thr Pro Gly Pro Ser Ser Ser Cys Lys Ser Asp
 225 230 235 240
 Leu Gly Glu Leu Asp His Val Val Glu Ile Leu Val Glu Thr
 245 250

<210> 4447

<211> 169

<212> PRT

4033

<213> Homo sapiens

<220>

<221> SITE

<222> (98)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (153)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (159)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4447

Ser	Lys	Val	Lys	Gln	Thr	Glu	Asn	Cys	Gly	Gly	Phe	Val	Gly	Val	Gln
1				5					10				15		

Leu	Arg	Asn	Met	Ala	Gln	Glu	Thr	Asn	His	Ser	Gln	Val	Pro	Met	Leu
			20					25				30			

Cys	Ser	Thr	Gly	Cys	Gly	Phe	Tyr	Gly	Asn	Pro	Arg	Thr	Asn	Gly	Met
		35					40					45			

Cys	Ser	Val	Cys	Tyr	Lys	Glu	His	Leu	Gln	Arg	Gln	Asn	Ser	Ser	Asn
		50				55					60				

Gly	Arg	Ile	Ser	Pro	Pro	Ala	Thr	Ser	Val	Ser	Ser	Leu	Ser	Glu	Ser
65					70					75				80	

Leu	Pro	Val	Gln	Cys	Thr	Asp	Gly	Ser	Val	Pro	Glu	Ala	Gln	Ser	Ala
			85						90					95	

Leu	Xaa	Ser	Thr	Ser	Ser	Ser	Met	Gln	Pro	Ser	Pro	Val	Ser	Asn	Gln
		100						105					110		

Ser	Leu	Leu	Ser	Glu	Ser	Val	Ala	Ser	Ser	Gln	Leu	Asp	Ser	Thr	Ser
		115					120					125			

Val	Asp	Lys	Ala	Val	Pro	Glu	Thr	Glu	Asp	Val	Gln	Ala	Ser	Val	Ser
	130					135					140				

Asp	Thr	Ala	Gln	Gln	Pro	Ser	Glu	Xaa	Gln	Ser	Lys	Ser	Leu	Xaa	Lys
145					150					155					160

Pro	Lys	Gln	Lys	Lys	Glu	Ser	Leu	Val
					165			

4034

<210> 4448

<211> 374

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4448

Ser	Pro	Ser	Ser	Thr	Ala	Ala	Thr	Ser	Ala	Phe	Arg	Ile	Ala	Ser	Ala
1				5					10					15	

Cys	Leu	Asp	Glu	Leu	Ser	Cys	Glu	Xaa	Leu	Leu	Ala	Gly	Ala	Gly	Gly
			20					25					30		

Ala	Gly	Ala	Gly	Ala	Xaa	Pro	Gly	Thr	Ala	Ser	Pro	Pro	Thr	Gly	Ser
			35				40					45			

Val	Pro	Gly	Asp	Pro	Val	Arg	Ile	His	Cys	Asn	Ile	Thr	Glu	Ser	Tyr
	50					55					60				

Pro	Ala	Val	Pro	Pro	Ile	Trp	Ser	Val	Glu	Ser	Asp	Asp	Pro	Asn	Leu
65					70					75					80

Ala	Ala	Val	Leu	Glu	Arg	Leu	Val	Asp	Ile	Lys	Lys	Gly	Asn	Thr	Leu
				85					90					95	

Leu	Leu	Gln	His	Leu	Lys	Arg	Ile	Ile	Ser	Asp	Leu	Cys	Lys	Leu	Tyr
		100					105					110			

Asn	Leu	Pro	Gln	His	Pro	Asp	Val	Glu	Met	Leu	Asp	Gln	Pro	Leu	Pro
		115					120					125			

Ala	Glu	Gln	Cys	Thr	Gln	Glu	Asp	Val	Ser	Ser	Glu	Asp	Glu	Asp	Glu
	130					135					140				

Glu	Met	Pro	Glu	Asp	Thr	Glu	Asp	Leu	Asp	His	Tyr	Glu	Met	Lys	Glu
145					150					155					160

Glu	Glu	Pro	Ala	Glu	Gly	Lys	Lys	Ser	Glu	Asp	Asp	Gly	Ile	Gly	Lys
				165					170					175	

4035

Glu Asn Leu Ala Ile Leu Glu Lys Ile Lys Lys Asn Gln Arg Gln Asp
 180 185 190
 Tyr Leu Asn Gly Ala Val Ser Gly Ser Val Gln Ala Thr Asp Arg Leu
 195 200 205
 Met Lys Glu Leu Arg Asp Ile Tyr Arg Ser Gln Ser Phe Lys Gly Gly
 210 215 220
 Asn Tyr Ala Val Glu Leu Val Asn Asp Ser Leu Tyr Asp Trp Asn Val
 225 230 235 240
 Lys Leu Leu Lys Val Asp Gln Asp Ser Ala Leu His Asn Asp Leu Gln
 245 250 255
 Ile Leu Lys Glu Lys Glu Gly Ala Asp Phe Ile Leu Leu Asn Phe Ser
 260 265 270
 Phe Lys Asp Asn Phe Pro Phe Asp Pro Pro Phe Val Arg Val Val Ser
 275 280 285
 Pro Val Leu Ser Gly Gly Tyr Val Leu Gly Gly Gly Ala Ile Cys Met
 290 295 300
 Glu Leu Leu Thr Lys Gln Gly Trp Ser Ser Ala Tyr Ser Ile Glu Ser
 305 310 315 320
 Val Ile Met Gln Ile Ser Ala Thr Leu Val Lys Gly Lys Ala Arg Val
 325 330 335
 Gln Phe Gly Ala Asn Lys Ser Gln Tyr Ser Leu Thr Arg Ala Gln Gln
 340 345 350
 Ser Tyr Lys Ser Leu Val Gln Ile His Glu Lys Asn Gly Trp Tyr Thr
 355 360 365
 Pro Pro Lys Glu Asp Gly
 370

<210> 4449

<211> 146

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

4036

<220>

<221> SITE

<222> (73)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (138)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4449

Ala	Glu	Glu	Val	Tyr	Ala	Gln	Leu	Gln	Lys	Met	Leu	Leu	Glu	Gln	Gln
1				5					10					15	

Glu	Lys	Cys	Leu	Leu	Phe	Ser	Lys	Gln	Phe	Met	His	Gln	Gly	Asn	Val
			20					25					30		

Ala	Glu	Thr	Thr	Arg	Phe	Glu	Lys	Leu	Ala	Gln	Asp	Arg	Lys	Lys	Gln
		35						40				45			

Leu	Glu	Ile	Leu	Gln	Leu	Ala	Gln	Ala	Gln	Gly	Leu	Xaa	Pro	Pro	Thr
	50					55					60				

His	His	Phe	Glu	Leu	Lys	Thr	Phe	Xaa	Thr	Val	Arg	Ile	Phe	Ser	Gln
65					70					75					80

Leu	Asn	Ser	Thr	Glu	Met	His	Leu	Ile	Ile	Val	Arg	Gly	Met	Asn	Leu
				85					90					95	

Pro	Ala	Pro	Pro	Gly	Val	Thr	Pro	Asp	Asp	Leu	Asp	Ala	Phe	Val	Arg
			100					105					110		

Phe	Glu	Phe	His	Tyr	Pro	Asp	Ser	Asp	Gln	Ala	Gln	Lys	Ser	Lys	Thr
		115					120					125			

Ala	Val	Val	Asn	Asn	Thr	Asn	Ser	Pro	Xaa	Leu	Ile	Thr	Leu	Gln	Leu
	130					135					140				

Asn Ser

145

<210> 4450

<211> 61

<212> PRT

<213> Homo sapiens

<400> 4450

Ile	Met	Lys	Glu	Ser	Ser	Ser	Val	Leu	Ala	Lys	Cys	Ser	Ser	Ile	Ala
1				5					10					15	

4037

Gly Tyr Ile Gln Trp Ser Ser Ile Asn Ser Tyr Leu Ser Gly Leu Asn
 20 25 30

Gln Asn Cys Val Ser Leu Asn Ser Tyr His Thr Glu Gly Ala Ser Gln
 35 40 45

Ile Thr Ile Phe Leu Ser Ala Val Phe Leu Gln Lys Ser
 50 55 60

<210> 4451

<211> 29

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4451

Lys Thr Met Met Met Thr Phe Lys Lys Lys Lys Lys Lys Lys Lys Lys
 1 5 10 15

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Xaa
 20 25

<210> 4452

<211> 108

<212> PRT

<213> Homo sapiens

<400> 4452

Asp His Leu Asp Leu Thr Lys Gly Thr Ile Lys Trp Cys Gln Val Leu
 1 5 10 15

Gly Ser Arg Arg Val Tyr Lys Lys Lys Met Asn Lys Asp Phe Thr Tyr
 20 25 30

Trp Gly Ser Gly Ile Thr Gly Cys Leu Asp Cys Pro Ala Thr Gln Leu
 35 40 45

Pro Pro Ile Lys Ser Phe Ile Thr Leu Gln Glu Gly Pro Asp Ala Ser
 50 55 60

Ile Ile Ser Thr Pro Cys Phe Ser Val Ile Ser Phe Glu Val Ala Lys
 65 70 75 80

4038

Asn Gly Ser Gln Lys Lys Met Leu Arg Leu Phe Ser Ser Ile Tyr Ser
85 90 95

Cys Tyr Phe Ala Glu Asp Arg Val Asn Phe Phe Ser
100 105

<210> 4453

<211> 65

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4453

Ile Ser Gly Lys Trp Leu Thr Glu Arg Thr Ile Arg Cys Val Tyr Ile
1 5 10 15

Thr Ser Tyr Ser Leu Phe Leu Thr Ala Leu Met Leu Trp His Cys Tyr
20 25 30

Xaa His Ile Tyr Val Phe Leu Ile Tyr Ser Ser Asp Ser Phe Asn Phe
35 40 45

Leu Ser Ser Leu Ser Ile Arg Cys Ala His Leu Leu Cys Gln Val Glu
50 55 60

Val

65

<210> 4454

<211> 293

<212> PRT

<213> Homo sapiens

<220>

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<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

4039

<220>
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 <222> (31)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (97)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (112)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (242)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (243)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 4454
 Val Pro Gly Pro Ala Arg Gly Leu Gly Arg Leu Arg Arg Gly Val
 1 5 10 15
 Xaa Val Arg Gly Arg Arg Thr Xaa Ala Lys Val Ala Ile Lys Xaa Leu
 20 25 30
 Tyr Arg Pro Phe Gln Ser Glu Leu Phe Ala Lys Arg Ala Tyr Arg Glu
 35 40 45
 Leu Arg Leu Leu Lys His Met Arg His Glu Asn Val Ile Gly Leu Leu
 50 55 60
 Asp Val Phe Thr Pro Asp Glu Thr Leu Asp Asp Phe Thr Asp Phe Tyr
 65 70 75 80
 Leu Val Met Pro Phe Met Gly Thr Asp Leu Gly Lys Leu Met Lys His
 85 90 95
 Xaa Lys Leu Gly Glu Asp Arg Ile Gln Phe Leu Val Tyr Gln Met Xaa
 100 105 110
 Lys Gly Leu Arg Tyr Ile His Ala Ala Gly Ile Ile His Arg Asp Leu
 115 120 125

4040

Lys Pro Gly Asn Leu Ala Val Asn Glu Asp Cys Glu Leu Lys Ile Leu
 130 135 140

Asp Phe Gly Leu Ala Arg Gln Ala Asp Ser Glu Met Thr Gly Tyr Val
 145 150 155 160

Val Thr Arg Trp Tyr Arg Ala Pro Glu Val Ile Leu Asn Trp Met Arg
 165 170 175

Tyr Thr Gln Thr Val Asp Ile Trp Ser Val Gly Cys Ile Met Ala Glu
 180 185 190

Met Ile Thr Gly Lys Thr Leu Phe Lys Gly Ser Asp His Leu Asp Gln
 195 200 205

Leu Lys Glu Ile Met Lys Val Thr Gly Thr Pro Pro Ala Glu Phe Val
 210 215 220

Gln Arg Leu Gln Ser Asp Glu Ala Lys Asn Tyr Met Lys Gly Leu Pro
 225 230 235 240

Glu Xaa Xaa Glu Glu Gly Phe Cys Leu Tyr Pro Asp Gln Cys Lys Pro
 245 250 255

Ser Gly Cys Glu Pro Pro Gly Glu Asp Ala Gly Ala Gly Arg Gly Ala
 260 265 270

Ala Gly Asp Gly Arg Arg Gly Ala Gly Pro Ser Leu Leu Arg Val Pro
 275 280 285

Ala Arg His Gly Arg
 290

<210> 4455

<211> 82

<212> PRT

<213> Homo sapiens

<400> 4455

Thr Arg Gly Leu His Leu Thr Leu Ser Thr Tyr Gln Arg Asn Thr Trp
 1 5 10 15

Gly Asp Phe Leu Glu Ala Ile Leu Pro Leu Ala Val Gln Ala Ala Met
 20 25 30

Glu Glu Asn Val Glu Phe Arg Arg Gly Leu Pro Arg Asp Phe Met Asp
 35 40 45

Tyr Met Gly Ala Gln His Ser Asp Ser Lys Asp Pro Gly Lys Asn Arg

4041

50 55 60
 Phe His Gly Glu Gly Ala Gly Leu Gly Cys Pro Pro Gly Thr Leu Cys
 65 70 75 80
 Ser Cys

 <210> 4456
 <211> 72
 <212> PRT
 <213> Homo sapiens

 <220>
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 <222> (1)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (2)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
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 <222> (44)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (47)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 4456
 Xaa Xaa Phe Leu Ser Arg Leu Pro Phe Met Trp Val Lys Asp Lys Val
 1 5 10 15
 Glu Asn Thr Leu Leu Tyr Leu Val Ser Arg Val Asn Leu Met Ser Ser
 20 25 30
 Ser Leu Cys Phe Glu Ile Phe Trp Asn Val Ile Xaa Asn Tyr Xaa Arg
 35 40 45
 Trp Ser Met Tyr Val Leu Gly Leu Val Leu Met Phe Asn Met His Tyr
 50 55 60
 Leu Ile Gln Ser Ser Gln Gln Ser
 65 70

4042

<210> 4457

<211> 38

<212> PRT

<213> Homo sapiens

<400> 4457

Asp His Val Leu Cys Arg Asp Met Asp Glu Ala Gly Thr Ile Ile Leu
 1 5 10 15

Ser Lys Leu Thr Glu Glu Gln Glu Thr Lys His His Met Phe Ser Leu
 20 25 30

Val Ser Gly Thr Glu Gln
 35

<210> 4458

<211> 114

<212> PRT

<213> Homo sapiens

<400> 4458

Pro Arg Phe Cys Gly Ala Leu Arg His Ser Leu Asn Ala Thr Leu Thr
 1 5 10 15

Pro Arg Leu Glu Asn Pro Val Leu Met Trp Trp Ala Gly Pro Leu Leu
 20 25 30

Met Glu Asp Gly Gly Asp Gly Val Val Leu Lys Gly Ser Val Val Leu
 35 40 45

Glu Val Tyr Thr Pro Leu Arg Thr Ala Cys Gln Glu Pro Gln Ser Ser
 50 55 60

Phe Thr Ser Ala Lys Ala Glu Arg Glu Arg Thr Trp Glu Ala Phe Cys
 65 70 75 80

Ser Leu Ser Tyr Pro Ser Ile Asn Ser Ile Ile Val Asp Ala Lys Gly
 85 90 95

Asp Gly Asp Val Pro Ser Thr Val Val Ala Val Thr Thr Leu Thr Ser
 100 105 110

Leu Ser

4043

<210> 4459
 <211> 47
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (5)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
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 <222> (34)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (35)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (43)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (46)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 4459
 Asn Gln Asn Tyr Xaa Trp Glu Lys Asn Lys Phe Ile Tyr Glu Asn Val
 1 5 10 15
 Lys Ile Ile Leu Lys Val Leu Phe Ser Asn Lys Met Glu Lys Leu Val
 20 25 30
 Lys Xaa Xaa Lys Lys Lys Lys Lys Lys Arg Xaa Pro Leu Xaa Gly
 35 40 45

<210> 4460
 <211> 115
 <212> PRT
 <213> Homo sapiens

<400> 4460
 Ser Ala Leu Phe Ser Leu Ala Glu Asp Lys Gly Ile His Ala Ala Pro
 1 5 10 15

4044

Arg Phe Leu Val Ala Arg Leu Arg Thr Lys Gln Leu Arg Ser Ser His
 20 25 30
 Ser Asp Pro Asn Val Leu Thr Val Leu Phe Leu Ile Thr Val Thr Leu
 35 40 45
 Lys Val Gln Ala Lys Cys Cys Gln Thr Pro Trp Leu Lys Gln Trp Arg
 50 55 60
 Val Met Gly Lys Ala Val Glu Gly Pro Gln Pro Thr His Trp Leu Lys
 65 70 75 80
 Leu Pro Pro Thr Ala Thr Met Asn Pro Thr Ala Val Tyr Ala Pro Ile
 85 90 95
 Phe Leu Phe Leu Tyr Leu His Pro His Asp Ser Gln Cys Trp Ile Phe
 100 105 110
 Leu His Glu
 115

<210> 4461

<211> 106

<212> PRT

<213> Homo sapiens

<400> 4461

Gln Ser Met Val Val Ser His Tyr Ala Arg Pro Asp Leu Pro Leu Leu
 1 5 10 15
 Met Val Ile Ser Cys Glu Ser Phe Phe Leu Pro Leu His Ser Phe Tyr
 20 25 30
 Ser Val Tyr Ser Pro Met Pro His Pro Lys Ser Cys Thr Val Asn Trp
 35 40 45
 Pro Val Lys Gly Thr Pro Thr Phe Lys Gln Gly Arg Gln Asp Thr Thr
 50 55 60
 Gly Arg Arg Leu Ile Ala Gln Thr Leu Asp Cys Ser Gly Trp Asp Gln
 65 70 75 80
 Ile Leu Ala Pro Leu Leu Ala Ser Cys Val Ala Leu Gly Lys Leu Leu
 85 90 95
 Asn Leu Ser Gly Pro Gln Phe Leu Pro Leu
 100 105

4045

<210> 4462

<211> 49

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4462

Phe	Tyr	Tyr	Phe	Ser	Leu	Phe	Lys	Xaa	Glu	Xaa	Gln	Ile	Glu	Ser	Xaa
1				5				10						15	

Gln	Ile	Leu	Gln	Met	Thr	Gly	Ile	Phe	Val	Ser	Xaa	Leu	Ser	Phe	Cys
		20						25					30		

Val	Phe	Phe	Leu	Asn	Lys	Ile	Phe	Arg	Gly	Asn	Ala	Phe	Thr	Glu	Lys
		35						40					45		

Lys

<210> 4463

<211> 157

<212> PRT

<213> Homo sapiens

<400> 4463

Ile	Arg	His	Glu	Ser	Lys	Arg	Asn	Gln	Val	Ser	Tyr	Val	Arg	Pro	Ala
1				5					10					15	

Glu	Pro	Ala	Phe	Leu	Ala	Arg	Phe	Lys	Glu	Arg	Val	Gly	Tyr	Arg	Glu
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

20 25 30

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<210> 4464
<211> 94
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (7)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4464
Asn Tyr Asp Cys Phe Xaa Xaa Ser Pro Phe Gly Thr Arg Ser Phe Gln
 1             5             10             15
Leu Lys Gly Arg Gly Asn Ile Tyr Leu Lys Ser Ser Ile His Glu Arg
          20             25             30
Lys Arg Met Glu Thr Met Ser Ser Val Leu Leu Leu Pro Lys His Pro

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35 40 45

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<210> 4465
<211> 197
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (97)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (124)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (129)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4465
Arg Trp Ala Arg Val Glu Ala Ala Val Met Glu Gly Ala Gly Ala Gly
 1             5             10             15
Ser Gly Phe Arg Lys Glu Leu Val Ser Arg Leu Leu His Leu His Phe
          20             25             30
Lys Asp Asp Lys Thr Lys Val Ser Gly Asp Ala Leu Gln Leu Met Val
      35             40             45
Glu Leu Leu Lys Val Phe Val Val Glu Ala Ala Val Arg Gly Val Arg
      50             55             60
Gln Ala Gln Ala Glu Asp Ala Leu Arg Val Asp Val Asp Gln Leu Glu
      65             70             75             80
Lys Val Leu Arg Ser Cys Ser Gly Leu Leu Gly Ile Ser Ala Val Ala
          85             90             95

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4048

Xaa Ala Thr Pro Arg Gly Ala Pro Gly Pro Gln Lys Gln Ala Leu Cys
 100 105 110
 Phe Gln Arg Pro Leu Ile Arg Gly Arg Glu Gly Xaa Glu Gly Phe Gly
 115 120 125
 Xaa Asp Ser Asn Lys Ile Ser Gly Ser Leu Gln Pro Val Gln Lys Gly
 130 135 140
 Gln Asp Cys Ser Ala Leu Arg Ala Leu Glu Cys Pro Val Gly Thr Leu
 145 150 155 160
 Val Trp Glu Gly Ala Ala Pro Gly Glu Ser Leu Pro Leu Leu Pro Gly
 165 170 175
 Thr Ile Val Cys Met Pro Pro Gly Val Leu Gln Ala Gly Ala Gly Lys
 180 185 190
 Gly Leu Ala Ser Arg
 195

<210> 4466

<211> 98

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4466

Lys Ala Trp Ser Ala Phe Arg Gly Ile Arg Arg Lys His Arg Lys Ser
 1 5 10 15
 Leu Leu Ser Arg Ser Trp Ala Pro Leu Pro Leu Gly Gln Arg Thr Gly
 20 25 30
 Asn Arg Gly Ser Gly Ile Ser Gly Pro Ala Arg Glu Arg Ser Ser Arg
 35 40 45
 Ala Arg Ser Cys Pro Ala Asn His Ala Ala Pro Trp Ala Glu Ala Ala
 50 55 60
 Pro Ala Met Ala Leu Gly Pro Ala Pro Ala Gln Gly Xaa Leu Ser Pro
 65 70 75 80
 Ala Cys Trp Ala Pro Pro Trp Tyr Ile Ala Ser Ser Arg Thr Gln Ile

4049

85

90

95

Thr Pro

<210> 4467

<211> 47

<212> PRT

<213> Homo sapiens

<400> 4467

Gly Leu Pro His Arg Ile Ile Met His Ser Pro Leu Leu Met His Val
 1 5 10 15

Lys Phe Leu Leu Gly Lys Leu Thr His His Leu Thr Thr Ile Leu Ser
 20 25 30

Thr Ile Glu Tyr Ile Leu Phe His Lys Phe Gly Ile His Ser Glu
 35 40 45

<210> 4468

<211> 70

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4468

Phe Thr Asn Ala Phe Gly Gln Leu Asp Val Thr Asp Phe Ile Leu Cys
 1 5 10 15

Asp Tyr Asn Lys Lys His Asn Phe Leu Lys Lys Lys Lys Lys Lys Lys
 20 25 30

4050

Lys Lys Gly Gly Arg Ser Arg Gly Ser Lys Leu Thr Tyr Ala Cys Met
 35 40 45
 Arg Arg His Ser Ser Ser Ile Xaa Ser Pro Lys Phe Asn Ser Leu Ala
 50 55 60
 Arg Xaa Phe Thr Thr Xaa
 65 70

<210> 4469

<211> 74

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4469

Trp Xaa Tyr Arg Ile Leu Asn Arg Ile Gln Phe Asp Met Thr Ala Lys
 1 5 10 15
 Asn Val Gly Leu Thr Ser Thr Asn Ala Glu Val Arg Gly Phe Ile Asp
 20 25 30
 Gln Asn Leu Ser Pro Thr Lys Gly Asn Ile Ser Phe Val Ala Phe Pro
 35 40 45
 Val Ser Asn Thr Asn Ser Pro Thr Lys Ile Leu Pro Lys Thr Leu Gly
 50 55 60
 Pro Ile Asn Val Asn Val Gly Pro Gln Met
 65 70

<210> 4470

<211> 178

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

4051

<222> (134)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (170)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4470

Leu	Pro	Leu	Tyr	Thr	Gly	Ser	Ser	Arg	Gly	Glu	His	Ala	Pro	Pro	Pro
1				5					10					15	

Trp	Ser	Pro	Pro	Arg	Ala	Val	Asn	Leu	Gly	Ser	Xaa	Ser	Arg	Ala	Val
			20					25					30		

Thr	Leu	Pro	Glu	Ala	Pro	Pro	Pro	Arg	Arg	Arg	Pro	Gly	Ala	Val	Asn
		35					40					45			

Pro	Ser	Leu	Ala	Ala	Ala	Glu	Ser	Ala	Pro	Gly	Gln	Ala	His	Leu	Arg
	50					55					60				

Ile	Asn	Ala	Leu	Met	Ala	Ser	Pro	Arg	Arg	Glu	Ser	Leu	Gly	Met	Val
65					70					75					80

Phe	Ser	Thr	Val	Lys	Thr	Phe	Glu	Pro	Pro	Glu	Arg	Leu	Thr	Pro	Ala
				85					90					95	

Pro	Leu	Arg	Gly	His	Phe	Ile	Gln	Lys	Leu	Asn	His	Ser	Glu	Phe	Gln
			100					105					110		

His	Cys	Arg	Gly	Ser	Ser	Gly	Ser	Val	His	Arg	His	Ser	Leu	Ala	Leu
		115					120					125			

Ser	Pro	Thr	Glu	Pro	Xaa	Arg	Asp	Leu	Gly	Pro	Ser	Trp	Gly	Leu	Phe
	130					135					140				

Ile	Val	Glu	Lys	Ala	Ser	Cys	Gln	Thr	Arg	Ile	Cys	Gly	Arg	Gly	Gln
145					150					155					160

Ala	Gly	Gly	Leu	Gly	Arg	Trp	Gln	Trp	Xaa	Val	Ser	Ala	His	Gly	Cys
				165					170					175	

Gly Trp

<210> 4471

<211> 107

<212> PRT

<213> Homo sapiens

4052

<400> 4471

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Leu Arg Trp Lys Gly Arg Tyr Ser Glu Asn Asp Val Lys Asn Trp Thr
 1              5              10              15

Pro Glu Leu Gln Lys Tyr Leu Asn Phe Asp Pro Arg Thr Ala Gln Lys
          20              25              30

Ile Asp Asn Gly Ile Phe Trp Ile Ser Trp Asp Asp Leu Cys Gln Tyr
          35              40              45

Tyr Asp Val Ile Tyr Leu Ser Trp Asn Pro Gly Leu Phe Lys Glu Ser
          50              55              60

Thr Cys Ile His Ser Thr Trp Asp Ala Lys Gln Gly Pro Val Lys Asp
        65              70              75              80

Ala Tyr Ser Leu Ala Asn Asn Pro Gln Tyr Lys Leu Glu Val Gln Cys
          85              90              95

Thr Thr Gly Gly Cys Cys Ser Leu Gly Phe Ala
          100              105

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<210> 4472

<211> 129

<212> PRT

<213> Homo sapiens

<400> 4472

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Ala Trp Ala Asp Ala Trp Gly Glu Phe Ser Ala Leu Arg Ala Glu Asn
 1              5              10              15

Glu Lys Ile Lys Leu Glu Leu His Gln Leu Lys Gln Gln Val Met Asp
          20              25              30

Glu Val Ile Lys Val Arg Thr Asp Thr Lys Leu Asp Phe Asn Leu Glu
          35              40              45

Lys Ser Arg Val Lys Glu Leu Tyr Ser Leu Asn Glu Lys Lys Leu Leu
          50              55              60

Glu Leu Arg Thr Glu Ile Val Ala Leu His Ala Gln Gln Asp Arg Ala
        65              70              75              80

Leu Thr Gln Thr Asp Arg Lys Ile Glu Thr Glu Val Ala Gly Leu Lys
          85              90              95

Thr Met Leu Glu Ser His Lys Leu Asp Asn Ile Lys Tyr Leu Ala Gly
          100              105              110

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4053

Ser Ile Phe Thr Cys Leu Thr Val Ala Leu Gly Phe Tyr Arg Leu Trp
 115 120 125

Ile

<210> 4473

<211> 34

<212> PRT

<213> Homo sapiens

<400> 4473

Ala Cys Ser Asn Ala Cys Lys Thr Thr Tyr His Ser Ala Leu Val Phe
 1 5 10 15

Leu Ile Gln Glu Gly Arg Ala Val Asn Leu Phe Gly Ala Asn Val Lys
 20 25 30

Cys Lys

<210> 4474

<211> 90

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4474

Thr Tyr Tyr Gln Asn Phe Phe Lys Glu Phe Phe Met Lys Asp Phe Pro
 1 5 10 15

Pro Leu Gln Glu Arg Asn Xaa Val Leu Pro Phe Cys Leu Val Lys Ala
 20 25 30

Glu Phe Ala Val Ala Ser Lys Glu Thr Phe Leu Asn Lys Asn Tyr Val
 35 40 45

Leu Trp His Asn Pro Phe Phe Glu Leu Tyr Arg Glu Gln Ser Phe Gly
 50 55 60

Asn Ser Gly Arg Tyr Leu Phe Leu Leu Asn Ile Tyr Pro Ile Ile Gly
 65 70 75 80

4054

Ile Thr Val Thr Tyr Leu Gly Phe His His
85 90

<210> 4475

<211> 43

<212> PRT

<213> Homo sapiens

<400> 4475

Phe Lys Tyr Val Lys Cys Gly Ser Phe Thr Pro His His Ser Glu His
1 5 10 15

Thr Gly Glu Met Cys Phe Phe Gly Lys Leu Lys Gly Ala Ser Ser Leu
20 25 30

Ile Gln Arg Asn Ile Ser His Val Cys Ser Phe
35 40

<210> 4476

<211> 104

<212> PRT

<213> Homo sapiens

$\langle 220 \rangle$

<221> SITE

<222> (91)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4476

Ser Trp Arg Ser Asn Asn Ser Arg Lys Ser Ser Ala Asp Thr Glu Phe
1 5 10 15

Ser Asp Glu Cys Thr Thr Ala Glu Arg Val Leu Met Lys Ser Pro Ser
20 25 30

Pro Ala Leu His Pro Pro Gln Lys Tyr Lys Asp Arg Gly Ile Leu His
35 40 45

Pro Lys Arg Gly Thr Glu Asp Arg Ser Asp Gln Ser Ser Leu Lys Ser
50 55 60

Thr Asp Ser Ser Ser Tyr Pro Ser Pro Cys Ala Ser Pro Ser Pro Pro
65 70 75 80

Ser Ser Gly Lys Gly Leu Lys Ile Ser Phe Xaa Lys Thr Lys His Ala
85 90 95

4055

Cys Ser Ile Leu His Asn Glu Glu
100

<210> 4477

<211> 87

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4477

Thr Val Val Glu Val Tyr Val Phe Val Tyr Leu Pro Ala Phe Glu Asn
1 5 10 15

Gly Gln Ile Asp Lys Leu Ser Leu Thr Asp Leu Gly Ala Leu Trp Ala
20 25 30

Gly Ile Lys Thr Glu Gly Gly Leu Ser Gln Ser Gln Ser Pro Gly Gln
35 40 45

Thr Xaa Phe Leu Ser Tyr Gly Thr Ser Phe Ser Thr Pro Gln Pro Gly
50 55 60

Gln Ala Pro Tyr Ser Tyr Gln Met Gln Gly Leu Tyr Ile His Ile Ala
65 70 75 80

Ile Phe Leu Asn Pro Val Gly
85

<210> 4478

<211> 104

<212> PRT

<213> Homo sapiens

<400> 4478

Leu Gln Arg Arg Arg Glu Gln Lys Gln Arg Arg His Asp Ala Gln Gln
1 5 10 15

Leu Gln Gln Leu Lys His Leu Glu Ser Phe Tyr Glu Lys Pro Pro Pro
20 25 30

Gly Leu Ile Lys Glu Asp Glu Thr Lys Pro Glu Asp Cys Ile Pro Asp
35 40 45

4056

Val Pro Gly Asn Glu His Ala Arg Glu Phe Leu Ala His Ala Pro Thr
 50 55 60

Lys Gly Leu Trp Met Pro Leu Gly Lys Glu Val Lys Val Met Gln Cys
 65 70 75 80

Trp Arg Cys Lys Pro Met Val Thr Glu Arg Val Thr Lys Asn Ala Leu
 85 90 95

Ser Leu Ser Lys Ala Thr Lys Ser
 100

<210> 4479

<211> 126

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (99)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (102)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4479

Leu Val Lys Cys Asn Tyr Cys Asn Phe Phe Pro Ile Gln Leu Tyr Ile
 1 5 10 15

Ser Leu Thr Asp Asp Gln Ile Ile Val Val Leu Asn Gln Phe Val Val
 20 25 30

Ser Lys Cys Phe Val Gly Phe Cys Leu Phe Val Phe Lys Glu Gln Phe
 35 40 45

Gly Ser Leu Asp Met Val Leu Gln Arg Asp Xaa Met Gly Cys Xaa Trp

4057

50 55 60
 Phe Trp Val Ile Thr Asp Leu Leu Asp Asn Leu Asp Lys Gln Pro Ser
 65 70 75 80
 Cys His Val Cys Leu Ser Asn Leu Lys Cys Ser Leu Tyr Phe Met Phe
 85 90 95
 Leu Glu Xaa Leu Ser Xaa Lys Asp Leu Thr Leu Trp Gln Ile Cys Leu
 100 105 110
 Asn Arg Asp Thr Thr Met Leu Pro Asn Lys Ala Phe Trp Pro
 115 120 125

<210> 4480
 <211> 70
 <212> PRT
 <213> Homo sapiens

<400> 4480
 Val Thr Asn Leu Val Ile Ile Phe Phe Leu Ile Gln Pro Gln Lys Leu
 1 5 10 15
 Ala Ile Leu Lys Arg Leu Met Phe Thr Asn Gly Lys Asn Glu Met Thr
 20 25 30
 Leu His Leu Leu Arg Glu Asn Ser Leu Arg His Ser Leu Ser Lys Leu
 35 40 45
 Tyr Phe Phe Tyr Leu Ile Leu Lys Thr Ser Ala Pro Lys Ser Val Ser
 50 55 60
 Ile Phe Pro Glu Cys Leu
 65 70

<210> 4481
 <211> 41
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (7)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE

4058

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4481

Glu	Leu	Arg	Gln	Phe	Ser	Xaa	Met	Asn	Arg	Tyr	Asn	Leu	Lys	Pro	Asn
1				5					10					15	

Gln	Thr	Arg	Lys	Leu	Arg	Gly	His	Arg	Met	Pro	Val	Leu	Gly	Trp	Ala
			20					25					30		

Thr	Pro	Leu	Leu	Phe	Val	Lys	Met	Xaa
		35					40	

<210> 4482

<211> 53

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4482

Asn	Leu	Asn	Gly	Xaa	Leu	Ile	Phe	Pro	Leu	Cys	Pro	Leu	Val	Pro	Cys
1				5					10					15	

Lys	Met	Leu	Gly	His	Pro	Lys	Glu	Arg	Gly	Glu	Ile	Ala	Met	Val	Val
			20					25					30		

Pro	Lys	Val	Leu	Leu	Ala	Leu	His	Val	Phe	Leu	Lys	Ser	Arg	Thr	Trp
		35					40					45			

Ser	Phe	Ser	Phe	Met
				50

<210> 4483

<211> 80

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

4059

<221> SITE
 <222> (60)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (70)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (72)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (78)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (80)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 4483
 Cys Arg Gln Glu Arg Ala Val Ala Pro Ala Arg Arg Ala Met Glu Arg
 1 5 10 15
 Ile Pro Ser Ala Gln Pro Pro Pro Ala Cys Leu Pro Lys Ala Pro Gly
 20 25 30
 Leu Glu His Gly Asp Leu Pro Gly Met Tyr Pro Ala His Met Tyr Gln
 35 40 45
 Val Tyr Lys Ser Arg Arg Gly Ile Lys Arg Xaa Xaa Asp Ser Lys Glu
 50 55 60
 Thr Tyr Lys Leu Pro Xaa Arg Xaa Ile Glu Lys Arg Asp Xaa Thr Xaa
 65 70 75 80

<210> 4484
 <211> 155
 <212> PRT
 <213> Homo sapiens

<220>

4060

<221> SITE
 <222> (65)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (96)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (106)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 4484
 Ser Phe Gln Gln Glu Met Val Thr Ile Arg Arg Ile Ile Gln Ser Gln
 1 5 10 15
 Lys Arg Arg Arg Val Lys Thr Leu Pro Gly Asp Gly Lys Gly Asn Lys
 20 25 30
 His Lys Lys His Arg Lys Arg Arg Lys Gly Glu Glu Ser Glu Gly Phe
 35 40 45
 Leu Asn Pro Glu Leu Leu Glu Thr Ser Arg Lys Ser Arg Glu Pro Thr
 50 55 60
 Xaa Val Glu Glu Asn Lys Thr Asp Ser Leu Phe Val Leu Pro Ser Arg
 65 70 75 80
 Asp Asp Ala Thr Pro Val Arg Asp Glu Pro Met Asp Ala Glu Ser Xaa
 85 90 95
 Thr Phe Lys Ser Val Ser Glu Lys Asp Xaa Arg Glu Arg Asp Lys Pro
 100 105 110
 Lys Ala Lys Gly Asp Lys Thr Lys Arg Lys Asn Asp Gly Ser Ala Val
 115 120 125
 Ser Lys Lys Glu Asn Ile Val Lys Pro Ala Lys Gly Pro Gln Glu Lys
 130 135 140
 Val Asp Gly Glu Arg Glu Arg Ser Pro Ser Ile
 145 150 155

<210> 4485
 <211> 71
 <212> PRT
 <213> Homo sapiens

4061

<400> 4485

Pro Pro Arg Arg Gly Leu Gly Gly Thr Ser Ser Arg Ser Pro Gly Pro
1 5 10 15
Arg Phe Cys Gly Arg Val His Cys Arg Gly Gly Asp Gly Val Arg Ala
20 25 30
Arg Arg Gln Leu Pro Pro Arg Ser Ser Gly Pro Thr Trp Gln Ser Ala
35 40 45
Ala His Gly Ser Pro Ala Ser Glu Asp Pro Trp Leu Gln Pro Pro Ile
50 55 60
Pro Thr Cys Arg Arg Thr Arg
65 70

<210> 4486

<211> 54

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4486

Asp Ile Asp Leu Asp Met Arg Phe Phe Ser Phe Ile Leu Ser Cys Arg
1 5 10 15
Arg Asn Xaa Ser Ser Ile Cys Thr Arg Xaa Lys Thr Thr Tyr Thr Asn
20 25 30
Thr Ile Glu Gln Leu Ile Met Lys Thr Leu Pro Ala Phe Ile Lys Asn
35 40 45
Val Ile Ile Phe Phe Cys
50

<210> 4487

<211> 33

4062

<212> PRT

<213> Homo sapiens

<400> 4487

Gln Cys Ser Glu Ile Cys Gly Ala Asn His Ser Phe Met Pro Ile Val
 1 5 10 15

Leu Glu Leu Ile Pro Leu Lys Ile Phe Glu Ile Gly Pro Val Phe Thr
 20 25 30

Leu

<210> 4488

<211> 186

<212> PRT

<213> Homo sapiens

<400> 4488

Ala Val Pro Lys Asp Val Ser Ser Glu Glu Ala Gly Gln Val Glu Gly
 1 5 10 15

Val Ser Thr Met Val Ile Asp Gly Glu Gly Asp Ala Ala Gln Val Glu
 20 25 30

Arg Phe Val His Leu Pro Gly Val Gln Glu Trp Val Gly Gly Thr Thr
 35 40 45

Gln Ser Ile Leu Tyr Leu Ala His Thr Cys Trp Tyr Trp Ser Trp Leu
 50 55 60

Ala Phe Pro Cys Ala Thr Arg Arg Ser Cys Thr Val Leu Ser Ser Gln
 65 70 75 80

Leu Thr Ser Ala Lys Met Ser Gly Phe Ser Ser Glu Leu Leu Cys Glu
 85 90 95

Ala Thr Arg Met Glu Val Ile Ser Ala Ser Val Leu Ile Leu Glu Val
 100 105 110

Glu Lys Trp Ser Glu Ser Ser Val Val Lys Trp Pro Tyr Thr Lys Val
 115 120 125

Gly Asp Ile Gln Asn Arg Gly Glu Ile Gly Leu Ser Ala Pro Leu Gly
 130 135 140

Gly Arg Glu Ala Val Gly Val Gly Gly Glu Met Ala Leu Cys Glu Cys
 145 150 155 160

4063

Gly Arg Pro Ala Asp Trp Arg Trp Asn Trp Pro Gln Cys Leu Ser Trp
165 170 175

Arg Trp Arg Ser Gly Gln Ser Pro Trp Trp
180 185

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<210> 4489
<211> 134
<212> PRT
<213> Homo sapiens
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<400> 4489
Pro Val Pro Phe Pro Thr Phe Ala Leu Pro Val Val Gly Met Trp Glu
1 5 10 15

Ala His Leu Ser Ser Cys Asp Phe Met Ser Gln Thr Lys Asp Glu Arg
20 25 30

Leu Val Ser Ala Met Met Val Val Ser Glu Ala Phe Pro Cys Pro Val
35 40 45

Trp Cys Leu Pro His Ile Val Pro Asp Thr Gly Phe Leu Asp Pro Leu
50 55 60

Leu	Leu	Ser	Phe	Leu	Ser	Phe	Arg	Ser	Arg	Ser	Pro	Val	Leu	Tyr	Pro
65					70					75					80

Ala Pro Gln Lys Pro Gln Cys Phe Ser Ser Ala Gly Leu Gly His Lys
85 90 95

Glu Ala Leu Gly Tyr Gly Glu Arg Leu Leu Leu Pro Arg Val Tyr Ser
100 105 110

Gln Ala Arg Gly Leu Pro Ser Ser Ser Gln Thr Ser Leu Lys Gly Ser
115 120 125

Pro Phe Gly Ala Gly Arg
130

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<210> 4490
<211> 58
<212> PRT
<213> Homo sapiens
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<400> 4490
Glu Phe Gly Thr Arg Gln Trp Cys Asp Leu Ser Ser Leu Gln Pro Pro
1 5 10 15

4064

Arg Leu Gly Phe Met Gln Leu Ser Cys Leu Ser Leu Pro Ser Ser Trp
 20 25 30

Asp Tyr Arg His Val Pro Pro Cys Pro Ala Asn Phe Cys Ile Phe Ser
 35 40 45

Arg Asp Gly Val Ser Leu Cys Trp Ser Gly
 50 55

<210> 4491

<211> 25

<212> PRT

<213> Homo sapiens

<400> 4491

Arg Ala Pro Val Ile Pro Ala Thr Gln Glu Ala Glu Ala Gly Glu Trp
 1 5 10 15

Arg Glu Pro Gly Arg Arg Ser Leu Gln
 20 25

<210> 4492

<211> 351

<212> PRT

<213> Homo sapiens

<400> 4492

Glu Pro Pro Pro Pro Ala Ile Arg His His Leu Pro Leu Leu Gln Leu
 1 5 10 15

Phe Ser Gln Asp Gln Pro Leu Ala Gln Pro Arg Ala Met Ala Tyr Val
 20 25 30

Pro Ala Pro Gly Tyr Gln Pro Thr Tyr Asn Pro Thr Leu Pro Tyr Tyr
 35 40 45

Gln Pro Ile Pro Gly Gly Leu Asn Val Gly Met Ser Val Tyr Ile Gln
 50 55 60

Gly Val Val Ser Glu His Met Lys Arg Phe Phe Val Asn Phe Val Val
 65 70 75 80

Gly Gln Asp Pro Gly Ser Asp Val Ala Phe His Phe Asn Pro Arg Phe
 85 90 95

Asp Gly Trp Asp Lys Val Val Phe Asn Thr Leu Gln Gly Gly Lys Trp

4065

100	105	110
Gly Ser Glu Glu Arg Lys Arg Ser Met Pro Phe Lys Lys Gly Ala Ala		
115	120	125
Phe Glu Leu Val Phe Ile Val Leu Ala Glu His Tyr Lys Val Val Val		
130	135	140
Asn Gly Asn Pro Phe Tyr Glu Tyr Gly His Arg Leu Pro Leu Gln Met		
145	150	155
Val Thr His Leu Gln Val Asp Gly Asp Leu Gln Leu Gln Ser Ile Asn		
165	170	175
Phe Ile Gly Gly Gln Pro Leu Arg Pro Gln Gly Pro Pro Met Met Pro		
180	185	190
Pro Tyr Pro Gly Pro Gly His Cys His Gln Gln Leu Asn Ser Leu Pro		
195	200	205
Thr Met Glu Gly Pro Pro Thr Phe Asn Pro Pro Val Pro Tyr Phe Gly		
210	215	220
Arg Leu Gln Gly Gly Leu Thr Ala Arg Arg Thr Ile Ile Ile Lys Gly		
225	230	235
Tyr Val Pro Pro Thr Gly Lys Ser Phe Ala Ile Asn Phe Lys Val Gly		
245	250	255
Ser Ser Gly Asp Ile Ala Leu His Ile Asn Pro Arg Met Gly Asn Gly		
260	265	270
Thr Val Val Arg Asn Ser Leu Leu Asn Gly Ser Trp Gly Ser Glu Glu		
275	280	285
Lys Lys Ile Thr His Asn Pro Phe Gly Pro Gly Gln Phe Phe Asp Leu		
290	295	300
Ser Ile Arg Cys Gly Leu Asp Arg Phe Lys Val Tyr Ala Asn Gly Gln		
305	310	315
His Leu Phe Asp Phe Ala His Arg Leu Ser Ala Phe Gln Arg Val Asp		
325	330	335
Thr Leu Glu Ile Gln Gly Asp Val Thr Leu Ser Tyr Val Gln Ile		
340	345	350

<210> 4493

<211> 83

4066

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4493

Val	Asn	Glu	Cys	Gln	Gly	Arg	Gln	Ala	Pro	Ala	Pro	Arg	Ala	Leu	Gly
1				5					10					15	

Val	Ala	Arg	Gly	Cys	Leu	Ala	Arg	Thr	Pro	Cys	Thr	Tyr	Phe	Pro	Gly
			20					25					30		

Ala	Gln	His	Gly	Asn	Lys	Ala	Pro	Xaa	Xaa	Ala	Leu	Gly	Pro	Cys	Glu
		35					40					45			

Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys
	50					55					60				

Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Gly	Gly	Arg	Xaa	Lys
65						70					75				80

Arg Phe Pro

<210> 4494

<211> 91

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4494

Pro Gln Arg Ala Arg Ala Gly Ala Arg Xaa Pro Ser Met Gly Val Leu

4067

1 5 10 15
 Leu Thr Gln Arg Thr Leu Leu Ser Leu Val Leu Ala Leu Leu Phe Pro
 20 25 30
 Ser Met Ala Ser Met Ala Ala Ile Gly Ser Cys Ser Lys Glu Tyr Arg
 35 40 45
 Val Leu Leu Gly Gln Leu Gln Lys Gln Thr Asp Leu Met Gln Asp Thr
 50 55 60
 Ser Arg Leu Leu Asp Pro Tyr Val Ser Thr Trp Ala Leu Val Ala Ser
 65 70 75 80
 Glu Ser Gln Arg Thr Met Gly Leu Gly Arg Glu
 85 90

<210> 4495
 <211> 36
 <212> PRT
 <213> Homo sapiens

<400> 4495
 Ala Pro Val Val Ala Ala Thr Arg Glu Ala Glu Ala Gly Glu Ser Leu
 1 5 10 15
 Glu Pro Val Gly Ala Glu Val Ala Val Ser Gln Asp Arg Ala Thr Ala
 20 25 30
 Leu Gln Pro Gly
 35

<210> 4496
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 4496
 Leu Pro His Pro Lys Phe Tyr Gly Arg Leu Met Phe Cys Tyr Gly Asp
 1 5 10 15
 Tyr His Pro Ser Thr Trp Lys His Gln Asn Gly Leu Val Gln Leu Gly
 20 25 30
 Ser Ser Ala Arg Ser Arg Cys Leu Leu Phe Glu Ile Val Trp Lys Asp
 35 40 45

4068

Tyr Cys
50

<210> 4497
<211> 75
<212> PRT
<213> Homo sapiens

<400> 4497
Gln Val Asn Glu Val His Ile Trp Lys Ser Leu Asn Ile Phe Arg Ser
1 5 10 15
Trp Asn Ser Met Ala Thr Leu Val Val Tyr Ala Phe His Cys Cys Gly
20 25 30
Arg Gly Phe Gly Ser Lys Cys His Gln Gln Trp Ile Gln Lys Thr Trp
35 40 45
Ile Trp Asn Lys Gly Lys Ile Tyr Leu Met Gly Leu Asn Cys Ser Ala
50 55 60
Arg Ser Ile Trp Tyr Glu Met Lys Trp Leu Ser
65 70 75

<210> 4498
<211> 444
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (34)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4498
Asn Glu Gln Asp Asn Cys Val Leu Ile His Asp Val Asp Gln Arg Asn
1 5 10 15
Ser Asp Lys Asp Ile Phe Gly Asp Ala Cys Asp Asn Cys Leu Ser Val
20 25 30
Leu Xaa Asn Asp Gln Lys Asp Thr Asp Gly Asp Gly Arg Gly Asp Ala
35 40 45
Cys Asp Asp Asp Met Asp Gly Asp Gly Ile Lys Asn Ile Leu Asp Asn
50 55 60

4069

Cys	Pro	Lys	Phe	Pro	Asn	Arg	Asp	Gln	Arg	Asp	Lys	Asp	Gly	Asp	Gly	
65					70					75					80	
Val	Gly	Asp	Ala	Cys	Asp	Ser	Cys	Pro	Asp	Val	Ser	Asn	Pro	Asn	Gln	
				85					90					95		
Ser	Asp	Val	Asp	Asn	Asp	Leu	Val	Gly	Asp	Ser	Cys	Asp	Thr	Asn	Gln	
			100					105					110			
Asp	Ser	Asp	Gly	Asp	Gly	His	Gln	Asp	Ser	Thr	Asp	Asn	Cys	Pro	Thr	
			115				120					125				
Val	Ile	Asn	Ser	Ala	Gln	Leu	Asp	Thr	Asp	Lys	Asp	Gly	Ile	Gly	Asp	
	130					135					140					
Glu	Cys	Asp	Asp	Asp	Asp	Asp	Asn	Asp	Gly	Ile	Pro	Asp	Leu	Val	Pro	
145					150					155					160	
Pro	Gly	Pro	Asp	Asn	Cys	Arg	Leu	Val	Pro	Asn	Pro	Ala	Gln	Glu	Asp	
				165					170					175		
Ser	Asn	Ser	Asp	Gly	Val	Gly	Asp	Ile	Cys	Glu	Ser	Asp	Phe	Asp	Gln	
			180					185					190			
Asp	Gln	Val	Ile	Asp	Arg	Ile	Asp	Val	Cys	Pro	Glu	Asn	Ala	Glu	Val	
	195						200					205				
Thr	Leu	Thr	Asp	Phe	Arg	Ala	Tyr	Gln	Thr	Val	Val	Leu	Asp	Pro	Glu	
	210					215						220				
Gly	Asp	Ala	Gln	Ile	Asp	Pro	Asn	Trp	Val	Val	Leu	Asn	Gln	Gly	Met	
225					230					235					240	
Glu	Ile	Val	Gln	Thr	Met	Asn	Ser	Asp	Pro	Gly	Leu	Ala	Val	Gly	Tyr	
				245					250					255		
Thr	Ala	Phe	Asn	Gly	Val	Asp	Phe	Glu	Gly	Thr	Phe	His	Val	Asn	Thr	
			260					265					270			
Gln	Thr	Asp	Asp	Asp	Tyr	Ala	Gly	Phe	Ile	Phe	Gly	Tyr	Gln	Asp	Ser	
		275					280					285				
Ser	Ser	Phe	Tyr	Val	Val	Met	Trp	Lys	Gln	Thr	Glu	Gln	Thr	Tyr	Trp	
	290					295					300					
Gln	Ala	Thr	Pro	Phe	Arg	Ala	Val	Ala	Glu	Pro	Gly	Ile	Gln	Leu	Lys	
305					310					315					320	
Ala	Val	Lys	Ser	Lys	Thr	Gly	Pro	Gly	Glu	His	Leu	Arg	Asn	Ser	Leu	
				325					330					335		

4070

Trp His Thr Gly Asp Thr Ser Asp Gln Val Arg Leu Leu Trp Lys Asp
340 345 350

Ser Arg Asn Val Gly Trp Lys Asp Lys Val Ser Tyr Arg Trp Phe Leu
355 360 365

Gln His Arg Pro Gln Val Gly Tyr Ile Arg Val Arg Phe Tyr Glu Gly
370 375 380

Ser Glu Leu Val Ala Asp Ser Gly Val Thr Ile Asp Thr Thr Met Arg
385 390 395 400

Gly Gly Arg Leu Gly Val Phe Cys Phe Ser Gln Glu Asn Ile Ile Trp
405 410 415

Ser Asn Leu Lys Tyr Arg Cys Asn Asp Thr Ile Pro Glu Asp Phe Gln
420 425 430

Glu Phe Gln Thr Gln Asn Phe Asp Arg Phe Asp Asn
435 440

<210> 4499

<211> 358

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

$\langle 222 \rangle$ (234)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4499

Leu Pro Gln Val Met Ala Glu Phe Arg Asn Asn Pro Gly Glu Val Glu
1 5 10 15

Gly Arg Lys Ala Lys Ser Met Lys Gly Gln Thr Thr Gly Lys Asn Gln
20 25 30

Asp Asn Pro Val Ile Asp Glu Ile Asp Phe Leu Glu Ala Phe Lys Asn
35 40 45

Ile Gln Pro Ser Ser Phe Arg Ser Val Ile Gly Leu Met Asp Ile Lys
50 55 60

Pro Val Asp Trp Glu Glu Ile Gly Gly Leu Glu Asp Val Lys Leu Lys
65 70 75 80

Leu Lys Gln Ser Ile Glu Trp Pro Leu Lys Phe Pro Trp Glu Phe Val
85 90 95

4071

Arg Met Gly Leu Thr Gln Pro Lys Gly Val Leu Leu Tyr Gly Pro Pro
 100 105 110

Gly Cys Ala Lys Thr Thr Leu Val Arg Ala Leu Ala Thr Ser Cys His
 115 120 125

Cys Ser Phe Val Ser Val Ser Gly Ala Asp Leu Phe Ser Pro Phe Val
 130 135 140

Gly Asp Ser Glu Lys Val Leu Ser Gln Ile Phe Arg Gln Ala Arg Ala
 145 150 155 160

Ser Thr Pro Ala Ile Leu Phe Leu Asp Glu Ile Asp Ser Ile Leu Gly
 165 170 175

Ala Arg Ser Ala Ser Lys Thr Gly Cys Asp Val Gln Glu Arg Val Leu
 180 185 190

Ser Val Leu Leu Asn Glu Leu Asp Gly Val Gly Leu Lys Thr Ile Glu
 195 200 205

Arg Arg Gly Ser Lys Ser Ser Gln Gln Glu Phe Gln Glu Val Phe Asn
 210 215 220

Arg Ser Val Met Ile Ile Ala Ala Thr Xaa Arg Pro Asp Val Leu Asp
 225 230 235 240

Thr Ala Leu Leu Arg Pro Gly Arg Leu Asp Lys Ile Ile Tyr Ile Pro
 245 250 255

Pro Pro Asp His Lys Gly Arg Leu Ser Ile Leu Lys Val Cys Thr Lys
 260 265 270

Thr Met Pro Ile Gly Pro Asp Val Ser Leu Glu Asn Leu Ala Ala Glu
 275 280 285

Thr Cys Phe Phe Ser Gly Ala Asp Leu Arg Asn Leu Cys Thr Glu Ala
 290 295 300

Ala Leu Leu Ala Leu Gln Glu Asn Gly Leu Asp Ala Thr Thr Val Lys
 305 310 315 320

Gln Glu His Phe Leu Lys Ser Leu Lys Thr Val Lys Pro Ser Leu Ser
 325 330 335

Cys Lys Asp Leu Ala Leu Tyr Glu Asn Leu Phe Lys Lys Glu Gly Phe
 340 345 350

Ser Asn Val Glu Gly Ile
 355

4072

<210> 4500

<211> 446

<212> PRT

<213> Homo sapiens

<400> 4500

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Asn Ser Ala Gln Val Gly Arg Gly Asp Ala Val Leu Lys Thr Trp Ala
 1             5             10             15

Pro Ala Gln Cys Leu Cys Ser Arg Met Gly Pro Ala Trp Leu Trp Leu
      20             25             30

Leu Gly Thr Gly Ile Leu Ala Ser Val His Cys Gln Pro Leu Leu Ala
      35             40             45

His Gly Asp Lys Ser Leu Gln Gly Pro Gln Pro Pro Arg His Gln Leu
      50             55             60

Ser Glu Pro Ala Pro Ala Tyr His Arg Ile Thr Pro Thr Ile Thr Asn
      65             70             75             80

Phe Ala Leu Arg Leu Tyr Lys Glu Leu Ala Ala Asp Ala Pro Gly Asn
      85             90             95

Ile Phe Phe Ser Pro Val Ser Ile Ser Thr Thr Leu Ala Leu Leu Ser
      100            105            110

Leu Gly Ala Gln Ala Asn Thr Ser Ala Leu Ile Leu Glu Gly Leu Gly
      115            120            125

Phe Asn Leu Thr Glu Thr Pro Glu Ala Asp Ile His Gln Gly Phe Arg
      130            135            140

Ser Leu Leu His Thr Leu Ala Leu Pro Ser Pro Lys Leu Glu Leu Lys
      145            150            155            160

Val Gly Asn Ser Leu Phe Leu Asp Lys Arg Leu Lys Pro Arg Gln His
      165            170            175

Tyr Leu Asp Ser Ile Lys Glu Leu Tyr Gly Ala Phe Ala Phe Ser Ala
      180            185            190

Asn Phe Thr Asp Ser Val Thr Thr Gly Arg Gln Ile Asn Asp Tyr Leu
      195            200            205

Arg Arg Gln Thr Tyr Gly Gln Val Val Asp Cys Leu Pro Glu Phe Ser
      210            215            220

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4073

Gln Asp Thr Phe Met Val Leu Ala Asn Tyr Ile Phe Phe Lys Ala Lys
 225 230 235 240

Trp Lys His Pro Phe Ser Arg Tyr Gln Thr Gln Lys Gln Glu Ser Phe
 245 250 255

Phe Val Asp Glu Arg Thr Ser Leu Gln Val Pro Met Met His Gln Lys
 260 265 270

Glu Met His Arg Phe Leu Tyr Asp Gln Asp Leu Ala Cys Thr Val Leu
 275 280 285

Gln Ile Glu Tyr Arg Gly Asn Ala Leu Ala Leu Leu Val Leu Pro Asp
 290 295 300

Pro Gly Lys Met Lys Gln Val Glu Ala Ala Leu Gln Pro Gln Thr Leu
 305 310 315 320

Arg Lys Trp Gly Gln Leu Leu Leu Pro Ser Leu Leu Asp Leu His Leu
 325 330 335

Pro Arg Phe Ser Ile Ser Gly Thr Tyr Asn Leu Glu Asp Ile Leu Pro
 340 345 350

Gln Ile Gly Leu Thr Asn Ile Leu Asn Leu Glu Ala Asp Phe Ser Gly
 355 360 365

Val Thr Gly Gln Leu Asn Lys Thr Ile Ser Lys Val Ser His Lys Ala
 370 375 380

Met Val Asp Met Ser Glu Lys Gly Thr Glu Ala Gly Ala Ala Ser Gly
 385 390 395 400

Leu Leu Ser Gln Pro Pro Ser Leu Asn Thr Met Ser Asp Pro His Ala
 405 410 415

His Phe Asn Arg Pro Phe Leu Leu Leu Leu Trp Glu Val Thr Thr Gln
 420 425 430

Ser Leu Leu Phe Leu Gly Lys Val Val Asn Pro Val Ala Gly
 435 440 445

<210> 4501

<211> 180

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

4074

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (15)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4501

Lys	Ala	Arg	Pro	Leu	Xaa	Leu	Thr	Lys	Gly	Asn	Lys	Xaa	Trp	Xaa	Ser
1				5					10					15	

Thr	Ala	Val	Ala	Ala	Ala	Leu	Gln	Leu	Val	Asp	Pro	Pro	Gly	Cys	Arg
			20					25					30		

Asn	Ser	Ala	Arg	Glu	Glu	His	Trp	Pro	Ser	Gln	Leu	Leu	Leu	Arg	Glu
		35					40					45			

Ser	Leu	Glu	Asp	Met	Met	Leu	His	Ser	Ala	Leu	Gly	Leu	Cys	Leu	Leu
	50					55					60				

Leu	Val	Thr	Val	Ser	Ser	Asn	Leu	Ala	Ile	Ala	Ile	Lys	Lys	Glu	Lys
65					70					75					80

Arg	Pro	Pro	Gln	Thr	Leu	Ser	Arg	Gly	Trp	Gly	Asp	Asp	Ile	Thr	Trp
				85					90					95	

Val	Gln	Thr	Tyr	Glu	Glu	Gly	Leu	Phe	Tyr	Ala	Gln	Lys	Ser	Lys	Lys
			100					105					110		

Pro	Leu	Met	Val	Ile	His	His	Leu	Glu	Asp	Cys	Gln	Tyr	Ser	Gln	Ala
		115					120					125			

Leu	Lys	Lys	Val	Phe	Ala	Gln	Asn	Glu	Glu	Ile	Gln	Glu	Met	Ala	Gln
	130					135					140				

Asn	Lys	Phe	Ile	Met	Leu	Asn	Leu	Met	His	Glu	Thr	Thr	Asp	Lys	Asn
145					150					155					160

Leu	Ser	Pro	Asp	Gly	Gln	Tyr	Val	Pro	Arg	Asn	His	Val	Cys	Arg	Pro
				165					170					175	

Phe	Phe	Asn	Ser
			180

4075

<210> 4502

<211> 29

<212> PRT

<213> Homo sapiens

<400> 4502

Gly Gly Thr Ser Ser Leu Ser Thr Met Asn Gln Thr Ala Ile Leu Asn
 1 5 10 15

Leu Leu Pro Tyr Leu Ser Asp Ser Lys Trp His Ser Arg
 20 25

<210> 4503

<211> 238

<212> PRT

<213> Homo sapiens

<400> 4503

Gln Asp Leu Lys Pro Val Leu Asp Arg Glu Tyr Leu Ala Ile Tyr Leu
 1 5 10 15

Lys Met Val Phe Phe Thr Cys Asn Ala Cys Gly Glu Ser Val Lys Lys
 20 25 30

Ile Gln Val Glu Lys His Val Ser Val Cys Arg Asn Cys Glu Cys Leu
 35 40 45

Ser Cys Ile Asp Cys Gly Lys Asp Phe Trp Gly Asp Asp Tyr Lys Asn
 50 55 60

His Val Lys Cys Ile Ser Glu Asp Gln Lys Tyr Gly Gly Lys Gly Tyr
 65 70 75 80

Glu Gly Lys Thr His Lys Gly Asp Ile Lys Gln Gln Ala Trp Ile Gln
 85 90 95

Lys Ile Ser Glu Leu Ile Lys Arg Pro Asn Val Ser Pro Lys Val Arg
 100 105 110

Glu Leu Leu Glu Gln Ile Ser Ala Phe Asp Asn Val Pro Arg Lys Lys
 115 120 125

Ala Lys Phe Gln Asn Trp Met Lys Asn Ser Leu Lys Val His Asn Glu
 130 135 140

Ser Ile Leu Asp Gln Val Trp Asn Ile Phe Ser Glu Ala Ser Asn Ser
 145 150 155 160

4076

Glu Pro Val Asn Lys Glu Gln Asp Gln Arg Pro Leu His Pro Val Ala
 165 170 175

Asn Pro His Ala Glu Ile Ser Thr Lys Val Pro Ala Ser Lys Val Lys
 180 185 190

Asp Ala Val Glu Gln Gln Gly Glu Val Lys Lys Asn Lys Arg Glu Arg
 195 200 205

Lys Glu Glu Arg Gln Lys Lys Arg Lys Arg Glu Lys Lys Glu Leu Lys
 210 215 220

Val Arg Lys Pro Pro Gly Lys Thr Pro Arg Asp Ser Glu Ala
 225 230 235

<210> 4504

<211> 341

<212> PRT

<213> Homo sapiens

<400> 4504

Thr His Ala Ser Ala His Ala Ser Ala His Ala Ser Ala His Ala Ser
 1 5 10 15

Gly Trp His Val Gly Gln Ala Gln Gln Gly Pro Val Ser Ala Leu Ser
 20 25 30

Arg Ala Leu Pro Ala Pro Ala Arg Thr Met Arg Ala Leu Glu Gly Pro
 35 40 45

Gly Leu Ser Leu Leu Cys Leu Val Leu Ala Leu Pro Ala Leu Leu Pro
 50 55 60

Val Pro Ala Val Arg Gly Val Ala Glu Thr Pro Thr Tyr Pro Trp Arg
 65 70 75 80

Asp Ala Glu Thr Gly Glu Arg Leu Val Cys Ala Gln Cys Pro Pro Gly
 85 90 95

Thr Phe Val Gln Arg Pro Cys Arg Arg Asp Ser Pro Thr Thr Cys Gly
 100 105 110

Pro Cys Pro Pro Arg His Tyr Thr Gln Phe Trp Asn Tyr Leu Glu Arg
 115 120 125

Cys Arg Tyr Cys Asn Val Leu Cys Gly Glu Arg Glu Glu Glu Ala Arg
 130 135 140

Ala Cys His Ala Thr His Asn Arg Ala Cys Arg Cys Arg Thr Gly Phe

4077

145		150		155		160									
Phe	Ala	His	Ala	Gly	Phe	Cys	Leu	Glu	His	Ala	Ser	Cys	Pro	Pro	Gly
				165					170					175	
Ala	Gly	Val	Ile	Ala	Pro	Gly	Thr	Pro	Ser	Gln	Asn	Thr	Gln	Cys	Gln
			180					185					190		
Pro	Cys	Pro	Pro	Gly	Thr	Phe	Ser	Ala	Ser	Ser	Ser	Ser	Ser	Glu	Gln
		195					200					205			
Cys	Gln	Pro	His	Arg	Asn	Cys	Thr	Ala	Leu	Gly	Leu	Ala	Leu	Asn	Val
	210					215					220				
Pro	Gly	Ser	Ser	Ser	His	Asp	Thr	Leu	Cys	Thr	Ser	Cys	Thr	Gly	Phe
225					230					235					240
Pro	Leu	Ser	Thr	Arg	Val	Pro	Gly	Ala	Glu	Glu	Cys	Glu	Arg	Ala	Val
				245					250					255	
Ile	Asp	Phe	Val	Ala	Phe	Gln	Asp	Ile	Ser	Ile	Lys	Arg	Leu	Gln	Arg
		260						265					270		
Leu	Leu	Gln	Ala	Leu	Glu	Ala	Pro	Glu	Gly	Trp	Gly	Pro	Thr	Pro	Arg
		275					280					285			
Ala	Gly	Arg	Ala	Ala	Leu	Gln	Leu	Lys	Leu	Arg	Arg	Arg	Leu	Thr	Glu
	290					295					300				
Leu	Leu	Gly	Ala	Gln	Asp	Gly	Ala	Leu	Leu	Val	Arg	Leu	Leu	Gln	Ala
305					310					315					320
Leu	Arg	Val	Ala	Arg	Met	Pro	Gly	Leu	Glu	Arg	Ser	Val	Arg	Glu	Arg
				325					330					335	
Phe	Leu	Pro	Val	His											
			340												

<210> 4505

<211> 89

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

4078

<221> SITE

<222> (82)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (85)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4505

Lys Gly Gly Gln Gly Ser Val Gly Gly Glu Arg Gly Cys Leu Cys Ile
 1 5 10 15

Lys Thr Cys Phe Pro Ala Val Trp Arg Phe Leu Thr Glu Leu Lys Ile
 20 25 30

Glu Leu Pro Phe Ile Pro Ala Ile Pro Leu Leu Gly Ile Tyr Ser Lys
 35 40 45

Glu Asn Lys Leu Phe Tyr Gln Lys Asp Thr Cys Thr Pro Met Xaa Ile
 50 55 60

Ala Ala Leu Phe Thr Ile Ala Lys Thr Trp Ser Lys Pro Arg Cys Pro
 65 70 75 80

Ser Xaa Val Asn Xaa Ile Lys Lys Met
 85

<210> 4506

<211> 75

<212> PRT

<213> Homo sapiens

<400> 4506

Ile Ser Thr Ser Ile His Thr Tyr Val Leu Val Phe His Tyr Cys Asn
 1 5 10 15

Leu Lys Glu Arg Leu Cys Ile Pro Phe Phe Asn Ser Val Leu Val Phe
 20 25 30

Val Leu Phe Lys Lys Gln Asn Ser Ala Leu Phe Ser Cys Ile Ile Leu
 35 40 45

Glu Asp Thr Leu Leu Cys Thr Ile Pro Ser Ala Leu Glu His Cys Leu
 50 55 60

Ala Phe Leu Ser Ile Tyr Lys Cys Ile Tyr Val
 65 70 75

4079

<210> 4507

<211> 26

<212> PRT

<213> Homo sapiens

<400> 4507

Val Thr Ala Gly Val Gln Thr Lys Thr Cys Thr Pro Met Phe Ile Ala
1 5 10 15

Ala Leu Phe Thr Ala Ala Lys Arg Trp Lys
20 25

<210> 4508

<211> 67

<212> PRT

<213> Homo sapiens

<400> 4508

Lys Gln Glu Thr Leu Ser Asp Leu Gly Ser Ser Tyr Ala Lys Gln Leu
1 5 10 15

Gly Phe Arg Asp Ser Trp Val Phe Ile Gly Ala Lys Asp Leu Arg Gly
20 25 30

Lys Ser Pro Phe Glu Gln Phe Leu Lys Asn Ser Pro Asp Thr Asn Lys
35 40 45

Tyr Glu Gly Trp Pro Glu Leu Leu Glu Met Glu Gly Cys Met Pro Pro
50 55 60

Lys Pro Phe
65

<210> 4509

<211> 229

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4509

Ala Xaa Ala Pro Pro Gly Arg Ser Met Gly Arg Phe Arg Gly Gly Leu

4080

1	5	10	15
Arg Cys Ile Lys Tyr Leu Leu Leu Gly Phe Asn Leu Leu Phe Trp Leu	20	25	30
Ala Gly Ser Ala Val Ile Ala Phe Gly Leu Trp Phe Arg Phe Gly Gly	35	40	45
Ala Ile Lys Glu Leu Ser Ser Glu Asp Lys Ser Pro Glu Tyr Phe Tyr	50	55	60
Val Gly Leu Tyr Val Leu Val Gly Ala Gly Ala Leu Met Met Ala Val	65	70	75
Gly Phe Phe Gly Cys Cys Gly Ala Met Arg Glu Ser Gln Cys Val Leu	85	90	95
Gly Ser Phe Phe Thr Cys Leu Leu Val Ile Phe Ala Ala Glu Val Thr	100	105	110
Thr Gly Val Phe Ala Phe Ile Gly Lys Gly Val Ala Ile Arg His Val	115	120	125
Gln Thr Met Tyr Glu Glu Ala Tyr Asn Asp Tyr Leu Lys Asp Arg Gly	130	135	140
Lys Gly Asn Gly Thr Leu Ile Thr Phe His Ser Thr Phe Gln Cys Cys	145	150	155
Gly Lys Glu Ser Ser Glu Gln Val Gln Pro Thr Cys Pro Lys Glu Leu	165	170	175
Leu Gly His Lys Asn Cys Ile Asp Glu Ile Glu Thr Ile Ile Ser Val	180	185	190
Lys Leu Gln Leu Ile Gly Ile Val Gly Ile Gly Ile Ala Gly Leu Thr	195	200	205
Ile Phe Gly Met Ile Phe Ser Met Val Leu Cys Cys Ala Ile Arg Asn	210	215	220
Ser Arg Asp Val Ile	225		

<210> 4510

<211> 74

<212> PRT

<213> Homo sapiens

4081

<400> 4510

Ile Glu Cys Val Asn Thr Val Leu Val Asn Phe Ile Thr Phe Leu Leu
1 5 10 15

Pro Tyr Ser Leu Asn Phe Ser Val Phe Val Val Pro Lys Gln Leu Leu
20 25 30

Asn Leu Glu Gln Ile Asn Leu Thr Pro Ala Lys Lys Arg Leu Leu Leu
35 40 45

Ala Tyr Gln Leu Ser Leu Asn Ser Asn Ala His Val Thr Phe Ile Thr
50 55 60

Ser Lys Asn Ile Ser Leu Met Ile His Leu
65 70

<210> 4511

<211> 41

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4511

Tyr Ile Gly Phe Val Ile Leu Val Phe Phe Ala Ser Ser Tyr Val Lys
1 5 10 15

Glu Ile Asp Asn Lys Ile Leu Asn Asn Lys Lys Lys Xaa Lys Xaa Ser
20 25 30

Ser Lys Gly Xaa Val Ala Xaa Ala Ile

4082

35

40

<210> 4512

<211> 288

<212> PRT

<213> Homo sapiens

<400> 4512

Glu Ile Arg Val Ser Cys Thr Ala Gly Ala Gly Phe Pro Ala Ala Gln
 1 5 10 15
 Ala Arg Val Arg Cys Leu Cys His Leu Ile Leu Met Ser Gly Glu Ile
 20 25 30
 Ala Met Cys Glu Pro Glu Phe Gly Asn Asp Lys Ala Arg Glu Pro Ser
 35 40 45
 Val Gly Gly Arg Trp Arg Val Ser Trp Tyr Glu Arg Phe Val Gln Pro
 50 55 60
 Cys Leu Val Glu Leu Leu Gly Ser Ala Leu Phe Ile Phe Ile Gly Cys
 65 70 75 80
 Leu Ser Val Ile Glu Asn Gly Thr Asp Thr Gly Leu Leu Gln Pro Ala
 85 90 95
 Leu Ala His Gly Leu Ala Leu Gly Leu Val Ile Ala Thr Leu Gly Asn
 100 105 110
 Ile Ser Gly Gly His Phe Asn Pro Ala Val Ser Leu Ala Ala Met Leu
 115 120 125
 Ile Gly Gly Leu Asn Leu Val Met Leu Leu Pro Tyr Trp Val Ser Gln
 130 135 140
 Leu Leu Gly Gly Met Leu Gly Ala Ala Leu Ala Lys Ala Val Ser Pro
 145 150 155 160
 Glu Glu Arg Phe Trp Asn Ala Ser Gly Ala Ala Phe Val Thr Val Gln
 165 170 175
 Glu Gln Gly Gln Val Ala Gly Ala Leu Val Ala Glu Ile Ile Leu Thr
 180 185 190
 Thr Leu Leu Ala Leu Ala Val Cys Met Gly Ala Ile Asn Glu Lys Thr
 195 200 205
 Lys Gly Pro Leu Ala Pro Phe Ser Ile Gly Phe Ala Val Thr Val Asp
 210 215 220

4083

Ile Leu Ala Gly Gly Pro Val Ser Gly Gly Cys Met Asn Pro Ala Arg
 225 230 235 240

Ala Phe Gly Pro Ala Val Val Ala Asn His Trp Asn Phe His Trp Ile
 245 250 255

Tyr Trp Leu Gly Pro Leu Leu Ala Gly Leu Leu Val Gly Leu Leu Ile
 260 265 270

Arg Cys Phe Ile Gly Asp Gly Lys Thr Arg Leu Ile Leu Lys Ala Gln
 275 280 285

<210> 4513

<211> 128

<212> PRT

<213> Homo sapiens

<400> 4513

Ser Pro Pro Tyr Ala Arg Lys Thr Cys Ser Arg Ser Val Ala Lys Leu
 1 5 10 15

Asn Arg Ala Ile Arg Ile His Gln Thr Leu Met Glu Ser Ala Ser Leu
 20 25 30

Thr Tyr Glu Gln Arg Leu Leu Ala Ile Gln Gln Leu Gly Arg Asp Tyr
 35 40 45

Met Ala Ala Gly Leu Tyr Asp Arg Ala Glu Asp Met Phe Asn Gln Leu
 50 55 60

Thr Asp Glu Thr Asp Phe Arg Ile Gly Ala Leu Gln Gln Leu Leu Gln
 65 70 75 80

Ile Tyr Gln Ala Thr Ser Glu Trp Gln Lys Ala Ile Asp Val Ala Glu
 85 90 95

Arg Leu Val Lys Leu Gly Lys Asp Lys Gln Arg Val Glu Ile Ala His
 100 105 110

Phe Tyr Cys Glu Leu Ala Leu Gln His Met Ala Leu Leu Gln Thr Lys
 115 120 125

4084

<210> 4514
 <211> 43
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (11)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (34)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 4514
 Gly Lys Lys Ile Lys Lys Leu Ala Ser Ala Xaa Arg Gly Gly Ser Leu
 1 5 10 15
 Pro Val Ile Pro Ala Leu Ser Ala Ala Glu Ala Ser Gly Ser Leu Glu
 20 25 30
 Val Xaa Ser Ser Lys Thr Ser Leu Gly Gln Thr
 35 40

<210> 4515
 <211> 220
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (216)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 4515
 Asn Thr Pro Gly Phe Met Tyr Lys Asn Leu Gln Cys Leu Val Ile Asp
 1 5 10 15
 Glu Ala Asp Arg Ile Phe Asp Val Gly Phe Glu Glu Glu Leu Lys Gln
 20 25 30
 Ile Ile Lys Leu Leu Pro Thr Arg Arg Gln Thr Met Leu Phe Ser Ala
 35 40 45
 Thr Gln Thr Arg Lys Val Glu Asp Leu Ala Arg Ile Ser Leu Lys Lys
 50 55 60

4085

Glu Pro Leu Tyr Val Gly Val Asp Asp Asp Lys Ala Asn Ala Thr Val
 65 70 75 80
 Asp Gly Leu Glu Gln Lys Asn Arg Lys Lys Lys Leu Met Val Phe Phe
 85 90 95
 Ser Ser Cys Met Ser Val Lys Tyr His Tyr Glu Leu Leu Asn Tyr Ile
 100 105 110
 Asp Leu Pro Val Leu Ala Ile His Gly Lys Gln Lys Gln Asn Lys Arg
 115 120 125
 Thr Thr Thr Phe Phe Gln Phe Cys Asn Ala Asp Ser Gly Thr Leu Leu
 130 135 140
 Cys Thr Asp Val Ala Ala Arg Gly Leu Asp Ile Pro Glu Val Asp Trp
 145 150 155 160
 Ile Val Gln Tyr Asp Pro Pro Asp Asp Pro Lys Glu Tyr Ile His Arg
 165 170 175
 Val Gly Arg Thr Ala Arg Gly Leu Asn Gly Arg Gly His Ala Leu Leu
 180 185 190
 Ile Leu Arg Pro Glu Glu Leu Gly Phe Leu Arg Tyr Leu Lys Gln Ser
 195 200 205
 Lys Val Pro Leu Ser Glu Phe Xaa Leu Phe Leu Val
 210 215 220

<210> 4516

<211> 82

<212> PRT

<213> Homo sapiens

<400> 4516

Leu Glu Leu Phe Cys Asn Ile Thr Glu Phe Val Arg Ser Leu Ala Lys
 1 5 10 15
 Ile Phe Glu Gln Phe Ile Asn Val Glu Gln Met Phe Leu Phe Thr Ala
 20 25 30
 Leu Phe Val Thr Glu Gly Asp Lys Phe Ser Ser His Asp Tyr Trp Leu
 35 40 45
 Pro Cys Thr Ala Ile Phe Ile His Asn Ser Arg His Phe Pro Phe Leu
 50 55 60

4086

Trp Lys Ser Cys Cys Tyr Leu Asn Tyr Lys Cys Asn Cys Val Val Asn
 65 70 75 80

Glu Ser

<210> 4517

<211> 75

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4517

Lys Pro Gln Pro Leu Ala Tyr Ser Ser Phe Asn Thr Arg Asp Leu Trp
 1 5 10 15

Leu Ile Trp Gly Arg Lys Thr Leu Lys Val Ile Ser Leu Gly Gln Arg
 20 25 30

Pro Tyr Cys Thr Arg Gly Lys Lys Tyr Ile Leu His Leu Leu Leu Leu
 35 40 45

Gln Leu Cys Leu Lys Phe Ile Cys Leu Val Ile Leu Ser Thr Xaa Thr
 50 55 60

Asn Phe Leu Val Tyr Phe Lys His Leu Val Gly
 65 70 75

<210> 4518

<211> 38

<212> PRT

<213> Homo sapiens

<400> 4518

Val Asp Pro Glu Met Lys Val Glu Arg Tyr Lys Arg Thr Phe Asp Gln
 1 5 10 15

Asn Glu Glu Leu Gly Leu Asn Asp Met Lys Thr Glu Gly Tyr Glu Ala
 20 25 30

Gly Leu Ala Pro Gln Arg
 35

4087

<210> 4519

<211> 143

<212> PRT

<213> Homo sapiens

<400> 4519

Ala Arg Ala Asn Pro Ala Met Ala Tyr Ala Asn Glu Val Lys Arg Val
 1 5 10 15

Val Ser Ser Ala Gln Glu Lys Gly Arg Lys Ile Ala Ala Phe Phe Ala
 20 25 30

Glu Ser Leu Pro Ser Val Gly Gly Gln Ile Ile Pro Pro Ala Gly Tyr
 35 40 45

Phe Ser Gln Val Ala Glu His Ile Arg Lys Ala Gly Gly Val Phe Val
 50 55 60

Ala Asp Glu Ile Gln Val Gly Phe Gly Arg Val Gly Lys His Phe Trp
 65 70 75 80

Ala Phe Gln Leu Gln Gly Lys Asp Phe Val Pro Asp Ile Val Thr Met
 85 90 95

Gly Lys Ser Ile Gly Asn Gly His Pro Val Ala Cys Val Ala Ala Thr
 100 105 110

Gln Pro Val Ala Arg Ala Phe Glu Ala Thr Gly Leu Ser Thr Ser Thr
 115 120 125

Arg Leu Gly Ala Ala Gln Cys Pro Ala Leu Trp Gly Trp Pro Ser
 130 135 140

<210> 4520

<211> 77

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

4088

<220>

<221> SITE

<222> (75)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4520

Val	Thr	His	Ser	Val	Met	Leu	Gly	Arg	Pro	Gln	Ala	Glu	Lys	His	Leu
1				5					10					15	

Leu	Gln	Leu	Thr	Leu	Phe	Leu	Ala	Ile	His	Ser	Phe	Gly	Leu	Lys	Ile
			20					25					30		

Leu	Gln	His	Leu	Gln	Glu	Ser	Phe	Thr	Asn	Xaa	Ser	Phe	Gly	Gly	Val
		35					40					45			

Val	Leu	Asn	Tyr	Gln	Leu	Thr	Arg	Met	Arg	Xaa	Leu	Ala	Leu	Gly	Ser
	50					55					60				

Gln	Pro	Ala	Asn	Met	Asp	Gly	Leu	Ser	Gln	Xaa	Leu	Lys
65					70					75		

<210> 4521

<211> 347

<212> PRT

<213> Homo sapiens

<400> 4521

Arg	Gly	Val	Val	Asp	Ser	Glu	Asp	Leu	Pro	Leu	Asn	Ile	Ser	Arg	Glu
1				5					10					15	

Met	Leu	Gln	Gln	Ser	Lys	Ile	Leu	Lys	Val	Ile	Arg	Lys	Asn	Ile	Val
			20					25					30		

Lys	Lys	Cys	Leu	Glu	Leu	Phe	Ser	Glu	Leu	Ala	Glu	Asp	Lys	Glu	Asn
		35					40					45			

Tyr	Lys	Lys	Phe	Tyr	Glu	Ala	Phe	Ser	Lys	Asn	Leu	Lys	Leu	Gly	Ile
	50					55					60				

His	Glu	Asp	Ser	Thr	Asn	Arg	Arg	Arg	Leu	Ser	Glu	Leu	Leu	Arg	Tyr
65					70					75					80

His	Thr	Ser	Gln	Ser	Gly	Asp	Glu	Met	Thr	Ser	Leu	Ser	Glu	Tyr	Val
				85					90					95	

Ser	Arg	Met	Lys	Glu	Thr	Gln	Lys	Ser	Ile	Tyr	Tyr	Ile	Thr	Gly	Glu
			100					105						110	

4089

Ser Lys Glu Gln Val Ala Asn Ser Ala Phe Val Glu Arg Val Arg Lys
 115 120 125
 Arg Gly Phe Glu Val Val Tyr Met Thr Glu Pro Ile Asp Glu Tyr Cys
 130 135 140
 Val Gln Gln Leu Lys Glu Phe Asp Gly Lys Ser Leu Val Ser Val Thr
 145 150 155 160
 Lys Glu Gly Leu Glu Leu Pro Glu Asp Glu Glu Glu Lys Lys Lys Met
 165 170 175
 Glu Glu Ser Lys Ala Lys Phe Glu Asn Leu Cys Lys Leu Met Lys Glu
 180 185 190
 Ile Leu Asp Lys Lys Val Glu Lys Val Thr Ile Ser Asn Arg Leu Val
 195 200 205
 Ser Ser Pro Cys Cys Ile Val Thr Ser Thr Tyr Gly Trp Thr Ala Asn
 210 215 220
 Met Glu Arg Ile Met Lys Ala Gln Ala Leu Arg Asp Asn Ser Thr Met
 225 230 235 240
 Gly Tyr Met Met Ala Lys Lys His Leu Glu Ile Asn Pro Asp His Pro
 245 250 255
 Ile Val Glu Thr Leu Arg Gln Lys Ala Glu Ala Asp Lys Asn Asp Lys
 260 265 270
 Ala Val Lys Asp Leu Val Val Leu Leu Phe Glu Thr Ala Leu Leu Ser
 275 280 285
 Ser Gly Phe Ser Leu Glu Asp Pro Gln Thr His Ser Asn Arg Ile Tyr
 290 295 300
 Arg Met Ile Lys Leu Gly Leu Gly Ile Asp Glu Asp Glu Val Ala Ala
 305 310 315 320
 Glu Glu Pro Asn Ala Ala Val Pro Asp Glu Ile Pro Pro Leu Glu Gly
 325 330 335
 Asp Glu Asp Ala Ser Arg Met Glu Glu Val Asp
 340 345

<210> 4522

<211> 81

<212> PRT

<213> Homo sapiens

4090

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4522

Leu	Phe	Leu	Xaa	Gly	Gly	Lys	Asp	Pro	Leu	Val	Pro	Xaa	Xaa	Lys	Gln
1				5					10					15	

Leu	Gly	Lys	Asp	Leu	Ala	Leu	Tyr	Ile	Tyr	Trp	Met	Val	Leu	Met	Ala
			20					25					30		

Lys	Leu	Leu	Asn	Ser	Leu	Ile	Ser	His	Val	Ser	Ala	Ser	Arg	Ile	Ser
			35					40					45		

Asp	Arg	Asn	Glu	Thr	His	Leu	Lys	Met	Arg	Leu	Thr	Trp	Arg	Phe	Phe
			50				55				60				

Phe	Pro	Asn	Leu	Ser	Tyr	Leu	Asn	Trp	Lys	Asn	Asn	Gln	Leu	Ile	Leu
65					70					75					80

Cys

<210> 4523

<211> 56

<212> PRT

<213> Homo sapiens

<400> 4523

Thr	Gln	Val	Met	Gly	Leu	Cys	Cys	Thr	Asp	Tyr	Phe	Val	Val	His	Val
1				5					10					15	

Leu	Ser	Leu	Val	Pro	Asn	Ser	Tyr	Phe	Phe	Cys	Ser	Ser	Pro	Ser	Ser
			20					25					30		

Tyr	Pro	Leu	Pro	Ser	Ser	Trp	Pro	Asn	Val	Tyr	Cys	Ser	Leu	Leu	Cys
			35					40				45			

4091

Asn Asn His Ser Asn Leu Cys Phe
 50 55

<210> 4524

<211> 193

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (188)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (191)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (193)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4524

Gly Ala Gly Ala Ala Glu Pro Gly Pro Ala Ala Glu Leu Glu Ala Leu
 1 5 10 15

Leu Ser Ser Lys Asp Asp Val Gly Lys Ser Val His Glu Leu Glu Arg
 20 25 30

Ala Cys Arg Val Ala Glu Gln Ala Ala Asn Asp Leu Arg Ala Gln Val
 35 40 45

Thr Glu Leu Glu Asp Glu Leu Thr Ala Ala Glu Asp Ala Lys Leu Arg
 50 55 60

Leu Glu Val Thr Val Gln Ala Leu Lys Thr Gln His Glu Arg Asp Leu
 65 70 75 80

Gln Gly Arg Asp Glu Ala Gly Glu Glu Arg Arg Arg Gln Leu Ala Lys
 85 90 95

Gln Leu Arg Asp Ala Glu Val Glu Arg Asp Glu Glu Arg Lys Gln Arg
 100 105 110

Thr Leu Ala Val Ala Ala Arg Lys Lys Leu Glu Gly Glu Leu Glu Glu
 115 120 125

4092

Leu Lys Ala Gln Met Ala Ser Ala Gly Gln Gly Lys Glu Glu Ala Val
130 135 140

Lys Gln Leu Arg Lys Met Gln Ala Gln Met Lys Glu Leu Trp Arg Glu
145 150 155 160

Val Glu Glu Thr Arg Thr Phe Arg Glu Glu Ile Phe Ser Gln Asn Arg
165 170 175

Glu Ser Glu Lys Arg Leu Lys Gly Leu Lys Leu Xaa Cys Cys Xaa Cys
180 185 190

Xaa

<210> 4525
<211> 218
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (96)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (105)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (180)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (190)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (194)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (207)
<223> Xaa equals any of the naturally occurring L-amino acids

4093

<400> 4525

Ala Ser Ala Ser Ile Cys Ser Gly Ile Lys Tyr Ala Phe Gln Val Ile
 1 5 10 15

Gly Glu Leu His Ser Gln Leu Asp Gly Ser Glu Val Leu Leu Leu Thr
 20 25 30

Asp Gly Glu Asp Asn Thr Ala Ser Ser Cys Ile Asp Glu Val Lys Gln
 35 40 45

Ser Gly Ala Ile Val His Phe Ile Ala Leu Gly Arg Ala Ala Asp Glu
 50 55 60

Ala Val Ile Glu Met Ser Lys Ile Thr Gly Gly Ser His Phe Tyr Val
 65 70 75 80

Ser Asp Glu Ala Gln Asn Asn Gly Leu Ile Asp Ala Phe Gly Ala Xaa
 85 90 95

Thr Ser Gly Asn Thr Asp Leu Ser Xaa Lys Ser Leu Gln Leu Glu Ser
 100 105 110

Lys Gly Leu Thr Leu Asn Ser Asn Ala Trp Met Asn Asp Thr Val Ile
 115 120 125

Ile Asp Ser Thr Val Gly Lys Asp Thr Phe Phe Leu Ile Thr Trp Asn
 130 135 140

Ser Leu Pro Pro Ser Ile Ser Leu Trp Asp Pro Ser Gly Thr Ile Met
 145 150 155 160

Glu Asn Phe Thr Val Asp Ala Thr Ser Lys Met Ala Tyr Leu Ser Ile
 165 170 175

Pro Gly Thr Xaa Lys Val Gly Thr Trp Ala Tyr Asn Leu Xaa Ala Lys
 180 185 190

Ala Xaa Pro Glu Thr Leu Thr Ile Thr Val Thr Ser Arg Ala Xaa Lys
 195 200 205

Phe Phe Cys Ala Ser Asn His Ser Glu Cys
 210 215

<210> 4526

<211> 76

<212> PRT

<213> Homo sapiens

4094

<400> 4526

Gly Ala Phe Leu Met Ala Thr Ala Ala Trp Leu Thr Thr Val Phe Lys
 1 5 10 15

Gln Pro Gly Cys Ala Pro Glu Leu His Trp Ala Ser Phe His Asn Tyr
 20 25 30

Gly Ser Val Ser Ile Thr Leu Ile Ser Glu Cys Gly Arg His Leu Asn
 35 40 45

Lys Asn His Glu Ser His Phe Thr Asn Gln Asp Thr Gln Asp Val Arg
 50 55 60

Leu Ser Asp Leu Ser Tyr Gln Gly His Lys Ala Ser
 65 70 75

<210> 4527

<211> 147

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4527

Cys Phe Ser Ser Ser Gly Phe Thr Cys His Asp His Gly Ala Thr Val
 1 5 10 15

Leu Gln Tyr Ala Pro Lys Gln Gln Leu Leu Ile Ser Gly Gly Arg Lys
 20 25 30

Arg His Val Cys Ile Phe Asp Ile Xaa Gln Arg Gln Leu Ile His Thr
 35 40 45

Phe Gln Ala His Asp Ser Ala Ile Lys Ala Leu Ala Leu Asp Pro Tyr
 50 55 60

Glu Glu Tyr Phe Thr Thr Gly Ser Ala Glu Gly Asn Ile Lys Val Trp
 65 70 75 80

Arg Leu Thr Gly His Gly Leu Ile His Ser Phe Lys Ser Glu His Ala
 85 90 95

Lys Gln Ser Ile Phe Arg Asn Ile Gly Ala Gly Val Met Gln Ile Asp
 100 105 110

Ile Ile Gln Gly Asn Arg Leu Phe Ser Cys Gly Ala Asp Gly Thr Leu

4095

115 120 125
 Lys Thr Arg Val Leu Pro Asn Ala Phe Asn Ile Pro Asn Arg Ile Leu
 130 135 140

 Asp Ile Leu
 145

 <210> 4528
 <211> 423
 <212> PRT
 <213> Homo sapiens

 <400> 4528
 Pro Glu Asn Asn Gln Ile Glu Thr Met Glu Asp Leu Cys Val Ala Asn
 1 5 10 15

 Thr Leu Phe Ala Leu Asn Leu Phe Lys His Leu Ala Lys Ala Ser Pro
 20 25 30

 Thr Gln Asn Leu Phe Leu Ser Pro Trp Ser Ile Ser Ser Thr Met Ala
 35 40 45

 Met Val Tyr Met Gly Ser Arg Gly Ser Thr Glu Asp Gln Met Ala Lys
 50 55 60

 Val Leu Gln Phe Asn Glu Val Gly Ala Asn Ala Val Thr Pro Met Thr
 65 70 75 80

 Pro Glu Asn Phe Thr Ser Cys Gly Phe Met Gln Gln Ile Gln Lys Gly
 85 90 95

 Ser Tyr Pro Asp Ala Ile Leu Gln Ala Gln Ala Ala Asp Lys Ile His
 100 105 110

 Ser Ser Phe Arg Ser Leu Ser Ser Ala Ile Asn Ala Ser Thr Gly Asn
 115 120 125

 Tyr Leu Leu Glu Ser Val Asn Lys Leu Phe Gly Glu Lys Ser Ala Ser
 130 135 140

 Phe Arg Glu Glu Tyr Ile Arg Leu Cys Gln Lys Tyr Tyr Ser Ser Glu
 145 150 155 160

 Pro Gln Ala Val Asp Phe Leu Glu Cys Ala Glu Glu Ala Arg Lys Lys
 165 170 175

 Ile Asn Ser Trp Val Lys Thr Gln Thr Lys Gly Lys Ile Pro Asn Leu
 180 185 190

4096

Leu Pro Glu Gly Ser Val Asp Gly Asp Thr Arg Met Val Leu Val Asn
 195 200 205
 Ala Val Tyr Phe Lys Gly Lys Trp Lys Thr Pro Phe Glu Lys Lys Leu
 210 215 220
 Asn Gly Leu Tyr Pro Phe Arg Val Asn Ser Ala Gln Arg Thr Pro Val
 225 230 235 240
 Gln Met Met Tyr Leu Arg Glu Lys Leu Asn Ile Gly Tyr Ile Glu Asp
 245 250 255
 Leu Lys Ala Gln Ile Leu Glu Leu Pro Tyr Ala Gly Asp Val Ser Met
 260 265 270
 Phe Leu Leu Leu Pro Asp Glu Ile Ala Asp Val Ser Thr Gly Leu Glu
 275 280 285
 Leu Leu Glu Ser Glu Ile Thr Tyr Asp Lys Leu Asn Lys Trp Thr Ser
 290 295 300
 Lys Asp Lys Met Ala Glu Asp Glu Val Glu Val Tyr Ile Pro Gln Phe
 305 310 315 320
 Lys Leu Glu Glu His Tyr Glu Leu Arg Ser Ile Leu Arg Ser Met Gly
 325 330 335
 Met Glu Asp Ala Phe Asn Lys Gly Arg Ala Asn Phe Ser Gly Met Ser
 340 345 350
 Glu Arg Asn Asp Leu Phe Leu Ser Glu Val Phe His Gln Ala Met Val
 355 360 365
 Asp Val Asn Glu Glu Gly Thr Glu Ala Ala Ala Gly Thr Gly Gly Val
 370 375 380
 Met Thr Gly Arg Thr Gly His Gly Gly Pro Gln Phe Val Ala Asp His
 385 390 395 400
 Pro Phe Leu Phe Leu Ile Met His Lys Ile Thr Asn Cys Ile Leu Phe
 405 410 415
 Phe Gly Arg Phe Ser Ser Pro
 420

<210> 4529

<211> 86

<212> PRT

4097

<213> Homo sapiens

<400> 4529

Thr Met Glu Gly Cys Arg Pro Thr Ser Leu Ile Thr Ile Glu Ile His
 1 5 10 15
 Val Thr Ile Glu Pro Trp Lys Cys Ser Leu Ser Lys Leu Arg Cys Ala
 20 25 30
 Val Ser Ile Lys Tyr Ile Pro Asp Phe Lys Asp Val Pro Lys Asn Val
 35 40 45
 Asn Tyr Leu Asn Phe Tyr Ile Gly Glu Ile Asn Met Ser Trp Tyr Ser
 50 55 60
 Gly Leu Asn Lys Thr Ile Leu Ala Phe Leu Ser Leu Phe Phe Cys Lys
 65 70 75 80
 Lys Ile Lys Asn Cys Thr
 85

<210> 4530

<211> 244

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (101)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4530

Gly Leu Arg Arg Leu Asp Ser Ala Ser Gly Thr Val Tyr Thr Ala Met
 1 5 10 15
 Asp Val Ala Thr Gly Gln Glu Val Ala Ile Lys Gln Met Asn Leu Gln
 20 25 30
 Gln Gln Pro Lys Lys Glu Leu Ile Ile Asn Glu Ile Leu Val Met Arg
 35 40 45
 Glu Asn Lys Asn Pro Asn Ile Val Asn Tyr Leu Asp Ser Tyr Leu Val
 50 55 60
 Gly Asp Glu Leu Trp Val Val Met Glu Tyr Leu Ala Gly Gly Ser Leu
 65 70 75 80
 Thr Asp Val Val Thr Glu Thr Cys Met Asp Glu Gly Gln Ile Ala Ala
 85 90 95

4098

Val Cys Arg Glu Xaa Leu Gln Ala Leu Glu Phe Leu His Ser Asn Gln
100 105 110

Ile Thr Pro Glu Gln Ser Lys Arg Ser Thr Met Val Gly Thr Pro Tyr
115 120 125

Trp Met Ala Pro Glu Val Val Thr Arg Lys Ala Tyr Gly Pro Lys Val
130 135 140

Asp Ile Trp Ser Leu Gly Ile Met Ala Ile Glu Met Ile Glu Gly Glu
145 150 155 160

Pro Pro Tyr Leu Asn Glu Asn Pro Leu Arg Ala Leu Tyr Leu Ile Ala
165 170 175

Thr Asn Gly Thr Pro Glu Leu Gln Asn Pro Glu Lys Leu Ser Ala Ile
180 185 190

Phe Arg Asp Phe Leu Asn Arg Cys Leu Glu Met Asp Val Glu Lys Arg
195 200 205

Gly Ser Ala Lys Glu Leu Leu Gln His Gln Phe Leu Lys Ile Ala Lys
210 215 220

Pro Leu Ser Ser Leu Thr Pro Leu Ile Ala Ala Ala Lys Glu Ala Thr
225 230 235 240

Lys Asn Asn His

<210> 4531

<211> 624

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (188)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (192)

4099

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4531

His	Xaa	His	Ser	Phe	Ser	Ser	Gly	Tyr	Val	Glu	Met	Glu	Phe	Glu	Phe	1	5	10	15
Asp	Arg	Leu	Arg	Ala	Phe	Gln	Ala	Met	Gln	Val	His	Cys	Asn	Asn	Met	20	25	30	
His	Thr	Leu	Gly	Ala	Arg	Leu	Pro	Gly	Gly	Val	Glu	Cys	Arg	Phe	Arg	35	40	45	
Arg	Gly	Pro	Ala	Met	Ala	Trp	Glu	Gly	Glu	Pro	Met	Arg	His	Asn	Leu	50	55	60	
Gly	Gly	Asn	Leu	Gly	Asp	Pro	Arg	Ala	Arg	Ala	Val	Ser	Val	Pro	Leu	65	70	75	80
Gly	Gly	Arg	Val	Ala	Arg	Phe	Leu	Gln	Cys	Arg	Phe	Leu	Phe	Ala	Gly	85	90	95	
Pro	Trp	Leu	Leu	Phe	Ser	Glu	Ile	Ser	Phe	Ile	Ser	Asp	Val	Val	Asn	100	105	110	
Asn	Ser	Ser	Pro	Ala	Leu	Gly	Gly	Thr	Phe	Pro	Pro	Ala	Pro	Trp	Trp	115	120	125	
Pro	Pro	Gly	Pro	Pro	Pro	Thr	Asn	Phe	Ser	Ser	Leu	Glu	Leu	Glu	Pro	130	135	140	
Arg	Gly	Gln	Gln	Pro	Val	Ala	Lys	Ala	Glu	Gly	Ser	Pro	Thr	Ala	Ile	145	150	155	160
Leu	Ile	Gly	Cys	Leu	Val	Ala	Ile	Ile	Leu	Leu	Leu	Leu	Leu	Ile	Ile	165	170	175	
Ala	Leu	Met	Leu	Trp	Arg	Leu	His	Trp	Arg	Arg	Xaa	Leu	Ser	Lys	Xaa	180	185	190	
Glu	Arg	Arg	Val	Leu	Glu	Glu	Glu	Leu	Thr	Val	His	Leu	Ser	Val	Pro	195	200	205	
Gly	Asp	Thr	Ile	Leu	Ile	Asn	Asn	Arg	Pro	Gly	Pro	Arg	Glu	Pro	Pro	210	215	220	
Pro	Tyr	Gln	Glu	Pro	Arg	Pro	Arg	Gly	Asn	Pro	Pro	His	Ser	Ala	Pro	225	230	235	240
Cys	Val	Pro	Asn	Gly	Ser	Ala	Leu	Leu	Leu	Ser	Asn	Pro	Ala	Tyr	Arg	245	250	255	

4100

Leu Leu Leu Ala Thr Tyr Ala Arg Pro Pro Arg Gly Pro Gly Pro Pro
 260 265 270

Thr Pro Ala Trp Ala Lys Pro Thr Asn Thr Gln Ala Tyr Ser Gly Asp
 275 280 285

Tyr Met Glu Pro Glu Lys Pro Gly Ala Pro Leu Leu Pro Pro Pro Pro
 290 295 300

Gln Asn Ser Val Pro His Tyr Ala Glu Ala Asp Ile Val Thr Leu Gln
 305 310 315 320

Gly Val Thr Gly Gly Asn Thr Tyr Ala Val Pro Ala Leu Pro Pro Gly
 325 330 335

Ala Val Gly Asp Gly Pro Pro Arg Val Asp Phe Pro Arg Ser Arg Leu
 340 345 350

Arg Phe Lys Glu Lys Leu Gly Glu Gly Gln Phe Gly Glu Val His Leu
 355 360 365

Cys Glu Val Asp Ser Pro Gln Asp Leu Val Ser Leu Asp Phe Pro Leu
 370 375 380

Asn Val Arg Lys Gly His Pro Leu Leu Val Ala Val Lys Ile Leu Arg
 385 390 395 400

Pro Asp Ala Thr Lys Asn Ala Arg Asn Asp Phe Leu Lys Glu Val Lys
 405 410 415

Ile Met Ser Arg Leu Lys Asp Pro Asn Ile Ile Arg Leu Leu Gly Val
 420 425 430

Cys Val Gln Asp Asp Pro Leu Cys Met Ile Thr Asp Tyr Met Glu Asn
 435 440 445

Gly Asp Leu Asn Gln Phe Leu Ser Ala His Gln Leu Glu Asp Lys Ala
 450 455 460

Ala Glu Gly Ala Pro Gly Asp Gly Gln Ala Ala Gln Gly Pro Thr Ile
 465 470 475 480

Ser Tyr Pro Met Leu Leu His Val Ala Ala Gln Ile Ala Ser Gly Met
 485 490 495

Arg Tyr Leu Ala Thr Leu Asn Phe Val His Arg Asp Leu Ala Thr Arg
 500 505 510

Asn Cys Leu Val Gly Glu Asn Phe Thr Ile Lys Ile Ala Asp Phe Gly
 515 520 525

4101

Met Ser Arg Asn Leu Tyr Ala Gly Asp Tyr Tyr Arg Val Gln Gly Arg
 530 535 540

Ala Val Leu Pro Ile Arg Trp Met Ala Trp Glu Cys Ile Leu Met Gly
 545 550 555 560

Lys Phe Thr Thr Ala Ser Asp Val Trp Ala Phe Gly Val Thr Leu Trp
 565 570 575

Glu Val Leu Met Leu Cys Arg Ala Gln Pro Phe Gly Gln Leu Thr Asp
 580 585 590

Glu Gln Val Ile Glu Asn Ala Gly Glu Phe Phe Arg Asp Gln Gly Arg
 595 600 605

Gln Val Tyr Leu Ser Arg Pro Pro Ala Cys Pro Gln Ala Tyr Met Ser
 610 615 620

<210> 4532

<211> 202

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (201)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4532

Xaa Gln Arg Trp Gly Gly Met Glu Ala Thr Ala Arg Lys Pro Gly Gln
 1 5 10 15

Gln Trp Arg Ser Ser Val Ser Pro Ser Ser Gly Leu Glu Pro Ala Glu
 20 25 30

Thr Ser Ala Gly Val Ser Ser Gln Gly Arg Trp Val Cys Gly Val Ser
 35 40 45

Arg Gly Ala Val Pro Ala Arg Val Lys Arg Lys Leu Pro Arg Val Leu
 50 55 60

4102

Cys Thr Pro Thr Arg Arg Arg Pro Ser Pro Arg Gly Pro Ser Gln Pro
65 70 75 80

Asp Ala Arg Val Leu Cys Val Ser Asn Thr Arg Ser Val Pro Ala Pro
85 90 95

Arg Arg Pro Arg Cys Pro Gln Leu Glu Glu Asp Ile Ala Ala Lys Glu
100 105 110

Lys Leu Leu Arg Val Ser Glu Asp Glu Arg Asp Arg Val Leu Glu Glu
115 120 125

Leu His Lys Ala Glu Asp Ser Leu Leu Ala Ala Glu Glu Ala Ala Pro
130 135 140

Arg Leu Lys Pro Asp Val Ala Ser Leu Asn Arg Arg Ile Gln Leu Val
145 150 155 160

Glu Glu Glu Leu Asp Arg Ala Gln Glu Arg Leu Ala Thr Ala Leu Gln
165 170 175

Lys Leu Glu Glu Ala Asp Lys Ala Ala Asp Glu Ser Glu Arg Gly Met
180 185 190

Lys Val Ile Glu Ser Arg Ala Gln Xaa Gly
195 200

<210> 4533

<211> 397

<212> PRT

<213> Homo sapiens

<400> 4533

Pro Thr Arg Pro Ser Ser Val Ser Arg Arg Asp Lys Ser Lys Gln Val
1 5 10 15

Trp Glu Ala Val Leu Leu Pro Leu Ser Leu Leu Ser Met Met Asp Leu
20 25 30

Arg Asn Thr Pro Ala Lys Ser Leu Asp Lys Phe Ile Glu Asp Tyr Leu
35 40 45

Leu Pro Asp Thr Cys Phe Arg Met Gln Ile Asn His Ala Ile Asp Ile
50 55 60

Ile Cys Gly Phe Leu Lys Glu Arg Cys Phe Arg Gly Ser Ser Tyr Pro
65 70 75 80

Val Cys Val Ser Lys Val Val Lys Gly Gly Ser Ser Gly Lys Gly Thr

4103

	85		90		95	
Thr Leu Arg Gly Arg Ser Asp Ala Asp Leu Val Val Phe Leu Ser Pro	100		105		110	
Leu Thr Thr Phe Gln Asp Gln Leu Asn Arg Arg Gly Glu Phe Ile Gln	115		120		125	
Glu Ile Arg Arg Gln Leu Glu Ala Cys Gln Arg Glu Arg Ala Phe Ser	130		135		140	
Val Lys Phe Glu Val Gln Ala Pro Arg Trp Gly Asn Pro Arg Ala Leu	145		150		155	160
Ser Phe Val Leu Ser Ser Leu Gln Leu Gly Glu Gly Val Glu Phe Asp	165		170		175	
Val Leu Pro Ala Phe Asp Ala Leu Asp Phe Ala Arg Thr Gly Gln Leu	180		185		190	
Thr Gly Gly Tyr Lys Pro Asn Pro Gln Ile Tyr Val Lys Leu Ile Glu	195		200		205	
Glu Cys Thr Asp Leu Gln Lys Glu Gly Glu Phe Ser Thr Cys Phe Thr	210		215		220	
Glu Leu Gln Arg Asp Phe Leu Lys Gln Arg Pro Thr Lys Leu Lys Ser	225		230		235	240
Leu Ile Arg Leu Val Lys His Trp Tyr Gln Asn Cys Lys Lys Lys Leu	245		250		255	
Gly Lys Leu Pro Pro Gln Tyr Ala Leu Glu Leu Leu Thr Val Tyr Ala	260		265		270	
Trp Glu Arg Gly Ser Met Lys Thr His Phe Asn Thr Ala Gln Gly Phe	275		280		285	
Arg Thr Val Leu Glu Leu Val Ile Asn Tyr Gln Gln Leu Cys Ile Tyr	290		295		300	
Trp Thr Lys Tyr Tyr Asp Phe Lys Asn Pro Ile Ile Glu Lys Tyr Leu	305		310		315	320
Arg Arg Gln Leu Thr Lys Pro Arg Pro Val Ile Leu Asp Pro Ala Asp	325		330		335	
Pro Thr Gly Asn Leu Gly Gly Gly Asp Pro Lys Gly Trp Arg Gln Leu	340		345		350	
Ala Gln Glu Ala Glu Ala Trp Leu Asn Tyr Pro Cys Phe Lys Asn Trp						

4104

355 360 365
Asp Gly Ser Pro Val Ser Ser Trp Ile Leu Leu Val Arg Pro Pro Ala
370 375 380
Ser Ser Leu Pro Phe Ile Pro Ala Pro Leu His Glu Ala
385 390 395

<210> 4534

<211> 262

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (67)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4534

4105

Pro His Arg Ile Pro Ser Val Leu Ser Asp Leu Ser Ile Gln Ile Tyr
 1 5 10 15
 Gln Gln Leu Xaa Lys Ile Ala Glu Gly Xaa Leu Gln Pro Met Ile Val
 20 25 30
 Ser Ala Met Leu Glu Asn Glu Ser Ile Gln Gly Leu Ser Gly Val Lys
 35 40 45
 Pro Thr Gly Xaa Xaa Lys Xaa Ser Ser Ser Met Ala Asp Gly Asp Asn
 50 55 60
 Ser Tyr Xaa Leu Glu Ala Xaa Ile Arg Gln Met Asn Ala Phe His Thr
 65 70 75 80
 Val Met Cys Asp Gln Gly Leu Asp Pro Glu Ile Ile Leu Gln Val Phe
 85 90 95
 Lys Gln Leu Phe Tyr Met Ile Asn Ala Val Thr Leu Asn Asn Leu Leu
 100 105 110
 Leu Arg Lys Asp Val Cys Ser Trp Ser Thr Gly Met Gln Leu Arg Tyr
 115 120 125
 Asn Ile Ser Gln Leu Glu Glu Trp Leu Arg Gly Arg Asn Leu His Gln
 130 135 140
 Ser Gly Ala Val Gln Thr Met Glu Pro Leu Ile Gln Ala Ala Gln Leu
 145 150 155 160
 Leu Gln Leu Lys Lys Lys Thr Gln Glu Asp Ala Glu Ala Ile Cys Ser
 165 170 175
 Leu Cys Thr Ser Leu Ser Thr Gln Gln Ile Val Lys Ile Leu Asn Leu
 180 185 190
 Tyr Thr Pro Leu Asn Glu Phe Glu Glu Arg Val Thr Val Ala Phe Ile
 195 200 205
 Arg Thr Ile Gln Ala Gln Leu Gln Glu Arg Asn Asp Pro Gln Gln Leu
 210 215 220
 Leu Leu Asp Ala Lys His Met Phe Pro Val Leu Phe Pro Phe Asn Pro
 225 230 235 240
 Ser Ser Leu Thr Met Asp Ser Ile His Ile Pro Ala Cys Leu Asn Leu
 245 250 255
 Glu Phe Leu Asn Glu Val
 260

4106

<210> 4535

<211> 451

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (371)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4535

Gly	Met	Glu	Gly	Ser	Lys	Thr	Ser	Asn	Asn	Ser	Thr	Met	Gln	Val	Ser
1				5					10					15	

Phe	Val	Cys	Gln	Arg	Cys	Ser	Gln	Pro	Leu	Lys	Leu	Asp	Thr	Ser	Phe
			20					25					30		

Lys	Ile	Leu	Asp	Arg	Val	Thr	Ile	Gln	Glu	Leu	Thr	Ala	Pro	Leu	Leu
	35						40					45			

Thr	Thr	Ala	Gln	Ala	Lys	Pro	Gly	Glu	Thr	Gln	Glu	Glu	Glu	Thr	Asn
	50					55					60				

Ser	Gly	Glu	Glu	Pro	Phe	Ile	Glu	Thr	Pro	Arg	Gln	Asp	Gly	Val	Ser
65					70					75					80

Arg	Arg	Phe	Ile	Pro	Pro	Ala	Arg	Met	Met	Ser	Thr	Glu	Ser	Ala	Asn
				85					90					95	

Ser	Phe	Thr	Leu	Ile	Gly	Glu	Ala	Ser	Asp	Gly	Gly	Thr	Met	Glu	Asn
			100					105					110		

Leu	Ser	Arg	Arg	Leu	Lys	Val	Thr	Gly	Asp	Leu	Phe	Asp	Ile	Met	Ser
		115					120					125			

Gly	Gln	Thr	Asp	Val	Asp	His	Pro	Leu	Cys	Glu	Glu	Cys	Thr	Asp	Thr
	130					135					140				

Leu	Leu	Asp	Gln	Leu	Asp	Thr	Gln	Leu	Asn	Val	Thr	Glu	Asn	Glu	Cys
145					150					155					160

Gln	Asn	Tyr	Lys	Arg	Cys	Leu	Glu	Ile	Leu	Glu	Gln	Met	Asn	Glu	Asp
				165					170					175	

Asp	Ser	Glu	Gln	Leu	Gln	Met	Glu	Leu	Lys	Glu	Leu	Ala	Leu	Glu	Glu
			180					185					190		

Glu	Arg	Leu	Ile	Gln	Glu	Leu	Glu	Asp	Val	Glu	Lys	Asn	Arg	Lys	Ile
		195					200					205			

4107

Val Ala Glu Asn Leu Glu Lys Val Gln Ala Glu Ala Glu Arg Leu Asp
 210 215 220

Gln Glu Glu Ala Gln Tyr Gln Arg Glu Tyr Ser Glu Phe Lys Arg Gln
 225 230 235 240

Gln Leu Glu Leu Asp Asp Glu Leu Lys Ser Val Glu Asn Gln Met Arg
 245 250 255

Tyr Ala Gln Thr Gln Leu Asp Lys Leu Lys Lys Thr Asn Val Phe Asn
 260 265 270

Ala Thr Phe His Ile Trp His Ser Gly Gln Phe Gly Thr Ile Asn Asn
 275 280 285

Phe Arg Leu Gly Arg Leu Pro Ser Val Pro Val Glu Trp Asn Glu Ile
 290 295 300

Asn Ala Ala Trp Gly Gln Thr Val Leu Leu Leu His Ala Leu Ala Asn
 305 310 315 320

Lys Met Gly Leu Lys Phe Gln Arg Tyr Arg Leu Val Pro Tyr Gly Asn
 325 330 335

His Ser Tyr Leu Glu Ser Leu Thr Asp Lys Ser Lys Glu Leu Pro Leu
 340 345 350

Tyr Cys Ser Gly Gly Leu Arg Phe Phe Trp Asp Asn Lys Phe Asp His
 355 360 365

Ala Met Xaa Ala Phe Leu Asp Cys Val Gln Gln Phe Lys Glu Glu Val
 370 375 380

Glu Lys Gly Glu Thr Arg Phe Cys Leu Pro Tyr Arg Met Asp Val Glu
 385 390 395 400

Lys Gly Lys Ile Glu Asp Thr Gly Gly Ser Gly Gly Ser Tyr Ser Ile
 405 410 415

Lys Thr Gln Phe Asn Ser Glu Glu Gln Trp Thr Lys Ala Leu Lys Phe
 420 425 430

Met Leu Thr Asn Leu Lys Trp Gly Leu Ala Trp Val Ser Ser Gln Phe
 435 440 445

Tyr Asn Lys
 450

4108

<210> 4536

<211> 35

<212> PRT

<213> Homo sapiens

<400> 4536

Val Tyr Ile Arg Asp Pro Leu Val His Ser Thr Ala Asp Ile Ser Ser
 1 5 10 15

Ile Phe Asn Thr Thr Val Cys Ser Lys Ala Arg Trp Ser Leu Leu Lys
 20 25 30

Leu His Phe
 35

<210> 4537

<211> 201

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (127)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4537

Asn Asn Cys Ser Leu Leu Trp Val Leu Leu Ala Gly Phe Arg Leu Gly
 1 5 10 15

Asn Val Val His Ala Ile Gln Ala Thr Glu Gln Ser Ile His Ala Thr
 20 25 30

Asp Leu Val Pro Arg Leu Cys Leu Thr Leu Ala Asn Leu Asn Arg Val
 35 40 45

Ile Tyr Phe Ile Cys Asp Thr Ile Leu Trp Val Arg Ser Val Gly Leu
 50 55 60

Thr Ser Gly Ile Asn Lys Glu Lys Trp Arg Thr Arg Ala Ala His His
 65 70 75 80

Tyr Tyr Tyr Ser Leu Leu Leu Ser Leu Val Arg Asp Leu Tyr Glu Ile
 85 90 95

Ser Leu Gln Met Lys Arg Val Thr Cys Asp Arg Ala Lys Lys Glu Lys
 100 105 110

Ser Ala Ser Gln Asp Pro Leu Trp Phe Ser Val Ala Glu Glu Xaa Thr
 115 120 125

4109

Glu Trp Leu Gln Ser Phe Leu Leu Leu Leu Phe Arg Ser Leu Lys Gln
 130 135 140

His Pro Pro Leu Leu Leu Asp Thr Val Lys Asn Leu Cys Asp Ile Leu
 145 150 155 160

Asn Pro Leu Asp Leu Leu Gly Ile Tyr Lys Ser Asn Pro Gly Ile Ile
 165 170 175

Gly Leu Gly Gly Leu Val Ser Ser Ile Ala Gly Met Ile Thr Val Ala
 180 185 190

Tyr Pro Gln Met Lys Leu Lys Thr Arg
 195 200

<210> 4538

<211> 70

<212> PRT

<213> Homo sapiens

<400> 4538

Ala Asp Ile Ala Gly Val Leu Ala Ile Arg Pro Asp Glu Leu Arg Phe
 1 5 10 15

Arg Tyr Ser Met Val Ala Tyr Trp Arg Gln Ala Gly Leu Ser Tyr Ile
 20 25 30

Arg Tyr Ser Gln Ile Cys Ala Lys Ala Val Arg Asp Ala Leu Lys Thr
 35 40 45

Glu Phe Lys Ala Asn Ala Glu Lys Thr Ser Gly Ser Asn Val Lys Ile
 50 55 60

Val Lys Val Lys Lys Glu
 65 70

<210> 4539

<211> 72

<212> PRT

<213> Homo sapiens

<400> 4539

Ile Lys Ser Leu Asp Glu Gln Cys Val Val Gly Lys Ile Ser Lys His
 1 5 10 15

Trp Thr Gly Ile Leu Arg Glu Ala Phe Thr Asp Ala Asp Asn Phe Gly

4110

	20		25		30										
Ile	Gln	Phe	Pro	Leu	Asp	Leu	Asp	Val	Lys	Met	Lys	Ala	Val	Met	Ile
	35				40					45					
Gly	Ala	Cys	Phe	Leu	Ile	Asp	Phe	Met	Phe	Phe	Glu	Ser	Thr	Gly	Ser
	50				55					60					
Gln	Glu	Gln	Lys	Ser	Gly	Val	Trp								
65					70										

<210> 4540

<211> 376

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (364)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (370)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (372)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (374)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4540

Ser	Asn	Leu	Val	Pro	Val	Asp	Ile	Ile	Glu	Ser	Val	Val	Ser	Lys	Glu
1				5					10					15	

Met	Asp	Lys	Arg	Tyr	Leu	Gln	Phe	Asp	Ile	Lys	Ala	Phe	Val	Glu	Asn
			20					25					30		

Asn	Pro	Ala	Ile	Lys	Trp	Cys	Pro	Thr	Pro	Gly	Cys	Asp	Arg	Ala	Val
		35					40					45			

Arg	Leu	Thr	Lys	Gln	Gly	Ser	Asn	Thr	Ser	Gly	Ser	Asp	Thr	Leu	Ser
	50					55					60				

4111

Phe	Pro	Leu	Leu	Arg	Ala	Pro	Ala	Val	Asp	Cys	Gly	Lys	Gly	His	Leu	65	70	75	80
Phe	Cys	Trp	Glu	Cys	Leu	Gly	Glu	Ala	His	Glu	Pro	Cys	Asp	Cys	Gln	85	90	95	
Thr	Trp	Lys	Asn	Trp	Leu	Gln	Lys	Ile	Thr	Glu	Met	Lys	Pro	Glu	Glu	100	105	110	
Leu	Val	Gly	Val	Ser	Glu	Ala	Tyr	Glu	Asp	Ala	Ala	Asn	Cys	Leu	Trp	115	120	125	
Leu	Leu	Thr	Asn	Ser	Lys	Pro	Cys	Ala	Asn	Cys	Lys	Ser	Pro	Ile	Gln	130	135	140	
Lys	Asn	Glu	Gly	Cys	Asn	His	Met	Gln	Cys	Ala	Lys	Cys	Lys	Tyr	Asp	145	150	155	160
Phe	Cys	Trp	Ile	Cys	Leu	Glu	Glu	Trp	Lys	Lys	His	Ser	Ser	Ser	Thr	165	170	175	
Gly	Gly	Tyr	Tyr	Arg	Cys	Thr	Arg	Tyr	Glu	Val	Ile	Gln	His	Val	Glu	180	185	190	
Glu	Gln	Ser	Lys	Glu	Met	Thr	Val	Glu	Ala	Glu	Lys	Lys	His	Lys	Arg	195	200	205	
Phe	Gln	Glu	Leu	Asp	Arg	Phe	Met	His	Tyr	Tyr	Thr	Arg	Phe	Lys	Asn	210	215	220	
His	Glu	His	Ser	Tyr	Gln	Leu	Glu	Gln	Arg	Leu	Leu	Lys	Thr	Ala	Lys	225	230	235	240
Glu	Lys	Met	Glu	Gln	Leu	Ser	Arg	Ala	Leu	Lys	Glu	Thr	Glu	Gly	Gly	245	250	255	
Cys	Pro	Asp	Thr	Thr	Phe	Ile	Glu	Asp	Ala	Val	His	Val	Leu	Leu	Lys	260	265	270	
Thr	Arg	Arg	Ile	Leu	Lys	Cys	Ser	Tyr	Pro	Tyr	Gly	Phe	Phe	Leu	Glu	275	280	285	
Pro	Lys	Ser	Thr	Lys	Lys	Glu	Ile	Phe	Glu	Leu	Met	Gln	Thr	Asp	Leu	290	295	300	
Glu	Met	Val	Thr	Glu	Asp	Leu	Ala	Gln	Lys	Val	Asn	Arg	Pro	Tyr	Leu	305	310	315	320
Arg	Thr	Pro	Arg	His	Lys	Ile	Ile	Lys	Ala	Ala	Cys	Leu	Val	Gln	Gln	325	330	335	

4112

Lys Arg Gln Glu Phe Leu Gly Ile Cys Gly Leu Gly Gly Val Ala Pro
 340 345 350

Ala Asp Ser Pro Glu Ala Ser Lys Ala His Phe Xaa Gly Gly Asn Met
 355 360 365

Gly Xaa Gly Xaa Tyr Xaa Gly Val
 370 375

<210> 4541

<211> 123

<212> PRT

<213> Homo sapiens

<400> 4541

Ala Arg Val Lys Leu Lys Tyr Cys Phe Thr Cys Lys Met Phe Arg Pro
 1 5 10 15

Pro Arg Thr Ser His Cys Ser Val Cys Asp Asn Cys Val Glu Arg Phe
 20 25 30

Asp His His Cys Pro Trp Val Gly Asn Cys Val Gly Arg Arg Asn Tyr
 35 40 45

Arg Phe Phe Tyr Ala Phe Ile Leu Ser Leu Ser Phe Leu Thr Ala Phe
 50 55 60

Ile Phe Ala Cys Val Val Thr His Leu Thr Leu Arg Ala Gln Gly Ser
 65 70 75 80

Asn Phe Leu Ser Thr Leu Lys Glu Thr Pro Ala Ser Val Leu Gly Val
 85 90 95

Gly Asp Leu Leu Leu His Leu Val His Ser Gly Pro Leu Arg Val
 100 105 110

Ser His Val Pro Arg Arg Leu Gln Pro Asp Tyr
 115 120

<210> 4542

<211> 245

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (138)

4113

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (142)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (143)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (144)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (216)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (238)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (244)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4542

Gly	Asp	Thr	Thr	Ile	Pro	Leu	Ser	Leu	Cys	Leu	Ser	Gln	Arg	Pro	His
1				5				10				15			

Leu	Thr	Ser	Pro	Lys	Gly	Ser	Arg	Cys	Ser	Arg	His	Thr	Phe	Ala	Pro
			20					25					30		

Ala	Ala	Met	Thr	Leu	Ser	Pro	Leu	Leu	Leu	Phe	Leu	Pro	Pro	Leu	Leu
		35					40					45			

Leu	Leu	Leu	Asp	Val	Pro	Thr	Ala	Ala	Val	Gln	Ala	Ser	Pro	Leu	Gln
		50				55					60				

Ala	Leu	Asp	Phe	Phe	Gly	Asn	Gly	Pro	Pro	Val	Asn	Tyr	Lys	Thr	Gly
65					70					75					80

Asn	Leu	Tyr	Leu	Arg	Gly	Pro	Leu	Lys	Lys	Ser	Asn	Ala	Pro	Leu	Val
				85					90					95	

4114

Asn Val Thr Leu Tyr Tyr Glu Ala Leu Cys Gly Gly Cys Arg Ala Phe
 100 105 110

Leu Ile Arg Glu Leu Phe Pro Thr Trp Leu Leu Val Met Glu Ile Leu
 115 120 125

Asn Val Thr Leu Val Pro Tyr Gly Asn Xaa Gln Glu Gln Xaa Xaa Xaa
 130 135 140

Gly Arg Trp Glu Phe Lys Cys Gln His Gly Glu Glu Glu Cys Lys Phe
 145 150 155 160

Asn Lys Val Glu Ala Cys Val Leu Asp Glu Leu Asp Met Glu Leu Ala
 165 170 175

Phe Leu Thr Ile Val Cys Met Glu Glu Phe Glu Asp Met Glu Arg Ser
 180 185 190

Leu Pro Leu Cys Cys Ser Ser Thr Pro Arg Leu Ser Gln Asn Tyr His
 195 200 205

Glu Cys Ala Met Gly Arg Gly Xaa Ser His His Ala Thr Pro Arg Gln
 210 215 220

Ile Ser Gln His Lys Asp Met Ser Trp Tyr Ala Met Glu Xaa Glu Ile
 225 230 235 240

Thr Ser Leu Xaa Val
 245

<210> 4543

<211> 197

<212> PRT

<213> Homo sapiens

<400> 4543

Tyr Trp Cys Glu Gln Cys Asp Val Gln Phe Ser Ser Ser Ser Glu Leu
 1 5 10 15

Tyr Leu His Phe Gln Glu His Ser Cys Asp Glu Gln Tyr Leu Cys Gln
 20 25 30

Phe Cys Glu His Glu Thr Asn Asp Pro Glu Asp Leu His Ser His Val
 35 40 45

Val Asn Glu His Ala Cys Lys Leu Ile Glu Leu Ser Asp Lys Tyr Asn
 50 55 60

Asn Gly Glu His Gly Gln Tyr Ser Leu Leu Ser Lys Ile Thr Phe Asp

[illegible]

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<400> 4544
Gly His Ala Met Ile Asp Leu Arg Ser Asp Thr Val Thr Arg Pro Ser
  1                      5                      10                      15
Arg Ala Met Leu Glu Ala Met Met Ala Ala Pro Val Gly Asp Asp Val
                20                      25                      30
Tyr Gly Asp Asp Pro Thr Val Asn Ala Leu Gln Asp Tyr Ala Ala Glu
        35                      40                      45
Leu Ser Gly Lys Glu Ala Ala Ile Phe Leu Pro Thr Gly Thr Gln Ala
        50                      55                      60
Asn Leu Val Ala Leu Leu Ser His Cys Glu Arg Gly Glu Glu Tyr Ile
  65                      70                      75                      80
Val Gly Gln Ala Ala His Asn Tyr Leu Phe Glu Ala Gly Gly Ala Ala
                85                      90                      95

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4116

Val Leu Gly Ser Ile Gln Pro Gln Pro Ile Asp Ala Ala Ala Asp Gly
 100 105 110
 Thr Leu Pro Leu Asp Lys Val Ala Met Lys Ile Lys Pro Asp Asp Ile
 115 120 125
 His Phe Ala Arg Thr Lys Leu Leu Ser Leu Glu Asn Thr His Asn Gly
 130 135 140
 Lys Val Leu Pro Arg Glu Tyr Leu Lys Glu Ala Trp Glu Phe Thr Arg
 145 150 155 160
 Glu Arg Asn Leu Ala Leu His Val Asp Gly Ala Arg Ile Phe Asn Ala
 165 170 175
 Val Val Ala Tyr Gly Cys Glu Leu Lys Glu Ile Thr Gln Tyr Cys Asp
 180 185 190
 Ser Phe Thr Ile Cys Leu Ser Lys Gly Leu Gly Thr Pro Val Gly Ser
 195 200 205
 Leu Leu Val Gly Asn Arg Asp Tyr Ile Lys Arg Ala Ile Arg Trp Arg
 210 215 220
 Lys Met Thr Gly Gly Gly Met Arg Gln Ser Gly Ile Leu Ala Ala Ala
 225 230 235 240
 Gly Ile Tyr Ala Leu Lys Asn Asn Val Ala Arg Leu Gln Glu Asp His
 245 250 255
 Asp Asn Ala Ala Trp Met Ala Asp Ser Cys Val Lys Gln Ala Arg Met
 260 265 270

<210> 4545

<211> 21

<212> PRT

<213> Homo sapiens

<400> 4545

Glu Cys Lys Met Val Gln Pro Leu Trp Lys Thr Ile Trp His Ser Phe
 1 5 10 15

Asn Pro Ser Asn Ser
 20

4117

<210> 4546

<211> 368

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (196)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4546

Arg	Gln	Arg	Arg	Lys	Gly	Gly	Gln	Glu	Arg	Gly	Arg	Arg	Gly	Lys	Met
1				5					10					15	

Ala	Ala	Thr	Lys	Arg	Lys	Arg	Arg	Gly	Gly	Phe	Ala	Val	Gln	Ala	Lys
			20					25					30		

Lys	Pro	Lys	Arg	Asn	Glu	Ile	Asp	Ala	Glu	Pro	Pro	Ala	Lys	Arg	His
		35					40					45			

Ala	Thr	Ala	Glu	Glu	Val	Glu	Glu	Glu	Glu	Arg	Asp	Arg	Ile	Pro	Gly
	50					55					60				

Pro	Val	Cys	Lys	Gly	Lys	Trp	Lys	Asn	Lys	Glu	Arg	Ile	Leu	Ile	Phe
65					70					75					80

Ser	Ser	Arg	Gly	Ile	Asn	Phe	Arg	Thr	Arg	His	Leu	Met	Gln	Asp	Leu
				85					90					95	

Arg	Met	Leu	Met	Pro	His	Ser	Lys	Ala	Asp	Thr	Lys	Met	Asp	Arg	Lys
			100					105					110		

Asp	Lys	Leu	Phe	Val	Ile	Asn	Glu	Val	Cys	Glu	Met	Lys	Asn	Cys	Asn
	115						120					125			

Lys	Cys	Ile	Tyr	Phe	Glu	Ala	Lys	Lys	Lys	Gln	Asp	Leu	Tyr	Met	Trp
	130					135					140				

Leu	Ser	Asn	Ser	Pro	His	Gly	Pro	Ser	Ala	Lys	Phe	Leu	Val	Gln	Asn
145					150					155					160

Ile	His	Thr	Leu	Ala	Glu	Leu	Lys	Met	Thr	Gly	Asn	Cys	Leu	Lys	Gly
			165						170					175	

Ser	Arg	Pro	Leu	Leu	Ser	Phe	Asp	Pro	Ala	Phe	Asp	Glu	Leu	Pro	His
			180					185					190		

Tyr	Ala	Leu	Xaa	Lys	Glu	Leu	Leu	Ile	Gln	Ile	Phe	Ser	Thr	Pro	Arg
		195					200						205		

4118

Tyr His Pro Lys Ser Gln Pro Phe Val Asp His Val Phe Thr Phe Thr
 210 215 220

Ile Leu Asp Asn Arg Ile Trp Phe Arg Asn Phe Gln Ile Ile Glu Glu
 225 230 235 240

Asp Ala Ala Leu Val Glu Ile Gly Pro Arg Phe Val Leu Asn Leu Ile
 245 250 255

Lys Ile Phe Gln Gly Ser Phe Gly Gly Pro Thr Leu Tyr Glu Asn Pro
 260 265 270

His Tyr Gln Ser Pro Asn Met His Arg Arg Val Ile Arg Ser Ile Thr
 275 280 285

Ala Ala Lys Tyr Arg Glu Lys Gln Gln Val Lys Asp Val Gln Lys Leu
 290 295 300

Arg Lys Lys Glu Pro Lys Thr Leu Leu Pro His Asp Pro Thr Ala Asp
 305 310 315 320

Val Phe Val Thr Pro Ala Glu Glu Lys Pro Ile Glu Ile Gln Trp Val
 325 330 335

Lys Pro Glu Pro Lys Val Asp Leu Lys Ala Arg Lys Lys Arg Ile Tyr
 340 345 350

Lys Arg Gln Arg Lys Met Lys Gln Arg Met Asp Ser Gly Lys Thr Lys
 355 360 365

<210> 4547

<211> 565

<212> PRT

<213> Homo sapiens

<400> 4547

Ile Pro Gly Ser Thr His Ala Ser Ala Gly Asn Leu Asp Ser Pro Glu
 1 5 10 15

Gly Gly Phe Asp Ala Ile Met Gln Val Ala Val Cys Gly Ser Leu Ile
 20 25 30

Gly Trp Arg Asn Val Thr Arg Leu Leu Val Phe Ser Thr Asp Ala Gly
 35 40 45

4119

Phe	His	Phe	Ala	Gly	Asp	Gly	Lys	Leu	Gly	Gly	Ile	Val	Leu	Pro	Asn	50	55	60	
Asp	Gly	Gln	Cys	His	Leu	Glu	Asn	Asn	Met	Tyr	Thr	Met	Ser	His	Tyr	65	70	75	80
Tyr	Asp	Tyr	Pro	Ser	Ile	Ala	His	Leu	Val	Gln	Lys	Leu	Ser	Glu	Asn	85	90	95	
Asn	Ile	Gln	Thr	Ile	Phe	Ala	Val	Thr	Glu	Glu	Phe	Gln	Pro	Val	Tyr	100	105	110	
Lys	Glu	Leu	Lys	Asn	Leu	Ile	Pro	Lys	Ser	Ala	Val	Gly	Thr	Leu	Ser	115	120	125	
Ala	Asn	Ser	Ser	Asn	Val	Ile	Gln	Leu	Ile	Ile	Asp	Ala	Tyr	Asn	Ser	130	135	140	
Leu	Ser	Ser	Glu	Val	Ile	Leu	Glu	Asn	Gly	Lys	Leu	Ser	Glu	Gly	Val	145	150	155	160
Thr	Ile	Ser	Tyr	Lys	Ser	Tyr	Cys	Lys	Asn	Gly	Val	Asn	Gly	Thr	Gly	165	170	175	
Glu	Asn	Gly	Arg	Lys	Cys	Ser	Asn	Ile	Ser	Ile	Gly	Asp	Glu	Val	Gln	180	185	190	
Phe	Glu	Ile	Ser	Ile	Thr	Ser	Asn	Lys	Cys	Pro	Lys	Lys	Asp	Ser	Asp	195	200	205	
Ser	Phe	Lys	Ile	Arg	Pro	Leu	Gly	Phe	Thr	Glu	Glu	Val	Glu	Val	Ile	210	215	220	
Leu	Gln	Tyr	Ile	Cys	Glu	Cys	Glu	Cys	Gln	Ser	Glu	Gly	Ile	Pro	Glu	225	230	235	240
Ser	Pro	Lys	Cys	His	Glu	Gly	Asn	Gly	Thr	Phe	Glu	Cys	Gly	Ala	Cys	245	250	255	
Arg	Cys	Asn	Glu	Gly	Arg	Val	Gly	Arg	His	Cys	Glu	Cys	Ser	Thr	Asp	260	265	270	
Glu	Val	Asn	Ser	Glu	Asp	Met	Asp	Ala	Tyr	Cys	Arg	Lys	Glu	Asn	Ser	275	280	285	
Ser	Glu	Ile	Cys	Ser	Asn	Asn	Gly	Glu	Cys	Val	Cys	Gly	Gln	Cys	Val	290	295	300	
Cys	Arg	Lys	Arg	Asp	Asn	Thr	Asn	Glu	Ile	Tyr	Ser	Gly	Lys	Phe	Cys	305	310	315	320

Glu	Cys	Asp	Asn	Phe	Asn	Cys	Asp	Arg	Ser	Asn	Gly	Leu	Ile	Cys	Gly	
				325					330					335		
Gly	Asn	Gly	Val	Cys	Lys	Cys	Arg	Val	Cys	Glu	Cys	Asn	Pro	Asn	Tyr	
				340					345					350		
Thr	Gly	Ser	Ala	Cys	Asp	Cys	Ser	Leu	Asp	Thr	Ser	Thr	Cys	Glu	Ala	
				355					360					365		
Ser	Asn	Gly	Gln	Ile	Cys	Asn	Gly	Arg	Gly	Ile	Cys	Glu	Cys	Gly	Val	
				370					375					380		
Cys	Lys	Cys	Thr	Asp	Pro	Lys	Phe	Gln	Gly	Gln	Thr	Cys	Glu	Met	Cys	
				385					390					395		
Gln	Thr	Cys	Leu	Gly	Val	Cys	Ala	Glu	His	Lys	Glu	Cys	Val	Gln	Cys	
				405					410					415		
Arg	Ala	Phe	Asn	Lys	Gly	Glu	Lys	Lys	Asp	Thr	Cys	Thr	Gln	Glu	Cys	
				420					425					430		
Ser	Tyr	Phe	Asn	Ile	Thr	Lys	Val	Glu	Ser	Arg	Asp	Lys	Leu	Pro	Gln	
				435					440					445		
Pro	Val	Gln	Pro	Asp	Pro	Val	Ser	His	Cys	Lys	Glu	Lys	Asp	Val	Asp	
				450					455					460		
Asp	Cys	Trp	Phe	Tyr	Phe	Thr	Tyr	Ser	Val	Asn	Gly	Asn	Asn	Glu	Val	
				465					470					475		
Met	Val	His	Val	Val	Glu	Asn	Pro	Glu	Cys	Pro	Thr	Gly	Pro	Asp	Ile	
				485					490					495		
Ile	Pro	Ile	Val	Ala	Gly	Val	Val	Ala	Gly	Ile	Val	Leu	Ile	Gly	Leu	
				500					505					510		
Ala	Leu	Leu	Leu	Ile	Trp	Lys	Leu	Leu	Met	Ile	Ile	His	Asp	Arg	Arg	
				515					520					525		
Glu	Phe	Ala	Lys	Phe	Glu	Lys	Glu	Lys	Met	Asn	Ala	Lys	Trp	Asp	Thr	
				530					535					540		
Gly	Glu	Asn	Pro	Ile	Tyr	Lys	Ser	Ala	Val	Thr	Thr	Val	Val	Asn	Pro	
				545					550					555		
Lys	Tyr	Glu	Gly	Lys												
				565												

4121

<211> 60

<212> PRT

<213> Homo sapiens

<400> 4548

Val	Thr	Ser	Lys	Thr	Gln	Val	Gly	Leu	Phe	Lys	Phe	Leu	Lys	Phe	Glu
1				5					10					15	

Ile	Phe	Tyr	Leu	Gln	Lys	Ile	Val	Leu	Cys	Phe	Ile	Ile	Ser	Gln	Met
			20					25					30		

Ser	Val	Arg	Phe	Leu	Ser	Thr	Asn	Asp	His	Ala	Ser	Ile	Phe	Phe	Ser
		35					40					45			

Phe	Lys	Pro	Pro	Asn	Gln	Tyr	Phe	Ser	Phe	Lys	Phe
	50					55					60

<210> 4549

<211> 53

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4549

Thr	Arg	His	Lys	Ala	Gln	Leu	Ile	Phe	Val	Phe	Leu	Val	Glu	Thr	Gly
1				5					10					15	

Phe	Asp	Tyr	Val	Gly	Gln	Ala	Gly	Leu	Lys	Leu	Leu	Thr	Ser	Ser	Asp
			20					25					30		

Pro	Pro	Ala	Ser	Ala	Ser	Gln	Arg	Xaa	Gly	Thr	Ile	Asp	Met	Ser	His
		35					40					45			

Arg	Ala	Trp	Pro	Ser
	50			

<210> 4550

<211> 166

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

4122

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (131)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4550

Ala	Gln	Xaa	Leu	Ser	Ser	Pro	Val	Arg	Gly	Ile	Ser	Gly	Glu	Gln	Ser
1				5					10					15	

Thr	Xaa	Gly	Ser	Phe	Pro	Leu	Arg	Tyr	Val	Gln	Asp	Gln	Val	Ala	Ala
			20					25					30		

Pro	Phe	Gln	Leu	Ser	Asn	His	Thr	Gly	Arg	Ile	Lys	Val	Val	Phe	Thr
		35					40					45			

Pro	Ser	Ile	Cys	Lys	Val	Thr	Cys	Thr	Lys	Gly	Ser	Cys	Gln	Asn	Ser
	50					55					60				

Cys	Glu	Lys	Gly	Asn	Thr	Thr	Thr	Leu	Ile	Ser	Glu	Asn	Gly	His	Ala
65					70					75					80

Ala	Asp	Thr	Leu	Thr	Ala	Thr	Asn	Phe	Arg	Val	Val	Ile	Cys	His	Leu
				85					90					95	

Pro	Cys	Met	Asn	Gly	Gly	Gln	Cys	Ser	Ser	Arg	Asp	Lys	Cys	Gln	Cys
			100					105					110		

Pro	Pro	Asn	Phe	Thr	Gly	Lys	Leu	Cys	Gln	Ile	Pro	Val	His	Gly	Ala
		115					120					125			

Ser	Val	Xaa	Lys	Leu	Tyr	Gln	His	Ser	Gln	Gln	Pro	Gly	Lys	Ala	Leu
	130					135					140				

Gly	Thr	His	Val	Ile	His	Ser	Thr	His	Thr	Leu	Pro	Leu	Thr	Val	Thr
145					150					155					160

Ser	Gln	Gln	Glu	Ser	Lys
				165	

<210> 4551

<211> 60

4123

<212> PRT

<213> Homo sapiens

<400> 4551

Cys Val Pro Ser Thr Ser Ser Pro Gly Ile Ile Leu Ser Leu Ala Leu
 1 5 10 15

Ala Gly Ile Leu Gly Ile Cys Ile Val Val Val Val Ser Ile Trp Leu
 20 25 30

Phe Arg Arg Lys Ser Ile Lys Lys Gly Asp Asn Lys Gly Val Ile Tyr
 35 40 45

Lys Pro Ala Thr Lys Met Glu Thr Glu Ala His Ala
 50 55 60

<210> 4552

<211> 99

<212> PRT

<213> Homo sapiens

<400> 4552

His Cys Ile Leu Met Leu Phe Glu Asn Ala Ile Tyr Ile Val Lys Lys
 1 5 10 15

Arg Ala Gly Ala Pro Ala Ala Leu Val Pro Trp Gly Ser His Pro Ser
 20 25 30

Pro Gly Gly Leu Leu Gly Gly Leu Arg Arg Trp Ala Thr Glu Gly Gln
 35 40 45

Ala Gly Ala Ala His Ser Pro His Glu Gly Ile Ser Val Ser Tyr Ser
 50 55 60

Val Gln Arg Arg Gly Lys Thr Gln Cys Pro Gly Phe Ser Pro Pro Glu
 65 70 75 80

Met Lys Asp Thr Leu Tyr Phe Leu Pro Asn Val Pro Ala Ser Arg Phe
 85 90 95

Ile Met Asn

<210> 4553

<211> 73

<212> PRT

<213> Homo sapiens

4124

<400> 4553

Gly Gly Trp Phe Tyr Pro Phe Cys Leu Leu Phe Gly Thr Gln Leu Val
1 5 10 15
Phe Phe Gly Leu Leu Ser Ser Gly Ser Arg Ala Val Leu Ser Asn Thr
20 25 30
Val Thr Thr Cys Gly Cys Leu Lys Leu Ser Gln Leu Lys Ser His Lys
35 40 45
Ile Lys Asn Ser Phe Leu Ser Cys Thr Asn His Val Ser Arg Gly Val
50 55 60
Thr Val Cys Ser Ser Trp Leu Leu Tyr
65 70

<210> 4554

<211> 142

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (120)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (126)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (136)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

4125

<222> (138)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4554

Cys	Leu	Cys	Leu	His	Cys	Pro	Ser	Ser	Tyr	Leu	Phe	Cys	Ser	Met	Ser
1				5					10					15	

His	Ser	Tyr	Lys	Lys	Ala	Ile	Ser	Asp	Glu	Ala	Leu	Arg	Xaa	Phe	Gln
			20					25					30		

Met	Asp	Tyr	Phe	Gly	Gly	Leu	Xaa	Pro	Gly	Gln	Tyr	Ala	Thr	Arg	Met
		35					40					45			

Thr	Gly	Gln	Val	His	Gly	Ser	Gly	Cys	His	Leu	Arg	Ser	Ala	Pro	Cys
	50					55					60				

Asp	Leu	Gly	Ala	Ser	Gln	Arg	Asn	Tyr	Pro	Val	Ile	Ser	Leu	Lys	Ser
65					70						75				80

Met	Leu	Val	Cys	Phe	Pro	Lys	Ala	Asn	Gln	Gln	Leu	Ile	Gln	Thr	Leu
				85					90					95	

Gly	Pro	Gln	Ser	Arg	Trp	Asn	Asn	Gly	Arg	Arg	Leu	Pro	Glu	Cys	Gln
		100						105					110		

Val	Leu	Gln	Asp	Glu	Leu	Lys	Xaa	Arg	Val	Val	Gly	Arg	Xaa	Val	Gly
		115					120					125			

Gly	Lys	Gly	Pro	Cys	Pro	Asp	Xaa	Cys	Xaa	Pro	Cys	Ile	Tyr
	130					135					140		

<210> 4555

<211> 301

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (265)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (271)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4555

Gly	Thr	Ser	Val	Cys	Arg	Arg	Val	Glu	Lys	Asn	Trp	Gly	Ala	Val	Val
1				5						10				15	

4126

Arg Ser Pro Glu Gly Thr Pro Gln Lys Ile Arg Gln Leu Ile Asp Glu
 20 25 30

Gly Ile Ala Pro Glu Glu Gly Gly Val Asp Ala Lys Asp Thr Ser Ala
 35 40 45

Thr Ser Gln Ser Val Asn Gly Ser Pro Gln Ala Glu Gln Pro Ser Leu
 50 55 60

Glu Ser Thr Ser Lys Glu Ala Phe Phe Ser Arg Val Glu Thr Phe Ser
 65 70 75 80

Ser Leu Lys Trp Ala Gly Lys Pro Phe Glu Leu Ser Pro Leu Val Cys
 85 90 95

Ala Lys Tyr Gly Trp Val Thr Val Glu Cys Asp Met Leu Lys Cys Ser
 100 105 110

Ser Cys Gln Ala Phe Leu Cys Ala Ser Leu Gln Pro Ala Phe Asp Phe
 115 120 125

Asp Arg Tyr Lys Gln Arg Cys Ala Glu Leu Lys Lys Ala Leu Cys Thr
 130 135 140

Ala His Glu Lys Phe Cys Phe Trp Pro Asp Ser Pro Ser Pro Asp Arg
 145 150 155 160

Phe Gly Met Leu Pro Leu Asp Glu Pro Ala Ile Leu Val Ser Glu Phe
 165 170 175

Leu Asp Arg Phe Gln Ser Leu Cys His Leu Asp Leu Gln Leu Pro Ser
 180 185 190

Leu Arg Pro Glu Asp Leu Lys Thr Met Cys Leu Thr Glu Asp Lys Ile
 195 200 205

Ser Leu Leu Leu His Leu Leu Glu Asp Glu Leu Asp His Arg Thr Asp
 210 215 220

Glu Arg Lys Thr Thr Ile Lys Leu Gly Ser Asp Ile Gln Val His Val
 225 230 235 240

Thr Ala Cys Ile Leu Ser Val Cys Gly Trp Ala Cys Ser Ser Ser Leu
 245 250 255

Glu Ser Met Gln Leu Ser Leu Ile Xaa Cys Ser Gln Cys Met Xaa Lys
 260 265 270

Val Gly Leu Trp Gly Phe Gln Gln Ile Glu Ser Ser Met Thr Asp Leu
 275 280 285

4127

Asp Ala Ser Leu Pro Asp Gln Leu Pro Asn Pro Arg Pro
 290 295 300

<210> 4556

<211> 163

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4556

Xaa Glu Pro Lys Pro Ser Val Glu Pro Val Lys Ser Ile Ser Ser Met
 1 5 10 15

Glu Leu Lys Thr Glu Pro Phe Asp Asp Phe Leu Phe Pro Ala Ser Ser
 20 25 30

Arg Pro Ser Gly Ser Glu Thr Ala Arg Ser Val Pro Asp Met Asp Leu
 35 40 45

Ser Gly Ser Phe Tyr Ala Ala Asp Trp Glu Pro Leu His Ser Gly Ser
 50 55 60

Leu Gly Met Gly Pro Met Ala Gln Ser Trp Ser Pro Cys Ala Leu Arg
 65 70 75 80

Trp Ser Pro Val Leu Pro Ala Ala Leu Leu Thr Arg Leu Pro Ser Ser
 85 90 95

Ser Pro Thr Pro Arg Leu Thr Pro Ser Pro Ala Val Gln Leu Pro Thr
 100 105 110

Ala Arg Ala Ala Ala Ala Met Ser Leu Pro Leu Thr Arg Ser Ala His
 115 120 125

Pro Arg Cys Trp Pro Cys Glu Gly Ala Gly Lys Gly Arg Gln Pro Ala
 130 135 140

Pro Thr Ser Ala Thr Ala Arg Ala Gly Ala Leu Gln Arg Gly Glu Thr
 145 150 155 160

His Leu Pro

4128

<210> 4557

<211> 89

<212> PRT

<213> Homo sapiens

<400> 4557

Gln Thr Ala Ser Val Trp Pro Cys Pro His Ser Tyr Met Ser Leu Ser
 1 5 10 15

Thr Ser Thr Ser Leu Arg Ser Leu Thr Ser Arg Trp Thr Leu Tyr Ser
 20 25 30

His Val His Leu Ile Pro Asp Glu Leu Trp Ser Tyr Leu Asp Ala Gln
 35 40 45

Ile Arg Gly Phe Tyr Leu Ser Ile Gln Cys Ser Leu Arg Phe Gln Asp
 50 55 60

Ile Ser Pro Gln Ala Leu Gly Phe Thr Leu Gly Ile Arg Arg Leu His
 65 70 75 80

Val Ser Leu Glu Met Thr Cys Lys Ile
 85

<210> 4558

<211> 353

<212> PRT

<213> Homo sapiens

<400> 4558

Gly Ser Leu Asp Leu Trp Arg Gly Ala Glu Leu Ser Pro Gly His Ser
 1 5 10 15

Thr Leu Phe Thr Leu Cys Ala Cys Ala Lys Gly Ala Met Ala Ala Ser
 20 25 30

Cys Val Leu Leu His Thr Gly Gln Lys Met Pro Leu Ile Gly Leu Gly
 35 40 45

Thr Trp Lys Ser Glu Pro Gly Gln Val Lys Ala Ala Val Lys Tyr Ala
 50 55 60

Leu Ser Val Gly Tyr Arg His Ile Asp Cys Ala Ala Ile Tyr Gly Asn
 65 70 75 80

Glu Pro Glu Ile Gly Glu Ala Leu Lys Glu Asp Val Gly Pro Gly Lys
 85 90 95

4129

Ala Val Pro Arg Glu Glu Leu Phe Val Thr Ser Lys Leu Trp Asn Thr
 100 105 110
 Lys His His Pro Glu Asp Val Glu Pro Ala Leu Arg Lys Thr Leu Ala
 115 120 125
 Asp Leu Gln Leu Glu Tyr Leu Asp Leu Tyr Leu Met His Trp Pro Tyr
 130 135 140
 Ala Phe Glu Arg Gly Asp Asn Pro Phe Pro Lys Asn Ala Asp Gly Thr
 145 150 155 160
 Ile Cys Tyr Asp Ser Thr His Tyr Lys Glu Thr Trp Lys Ala Leu Glu
 165 170 175
 Ala Leu Val Ala Lys Gly Leu Val Gln Ala Leu Gly Leu Ser Asn Phe
 180 185 190
 Asn Ser Arg Gln Ile Asp Asp Ile Leu Ser Val Ala Ser Val Arg Pro
 195 200 205
 Ala Val Leu Gln Val Glu Cys His Pro Tyr Leu Ala Gln Asn Glu Leu
 210 215 220
 Ile Ala His Cys Gln Ala Arg Gly Leu Glu Val Thr Ala Tyr Ser Pro
 225 230 235 240
 Leu Gly Ser Ser Asp Arg Ala Trp Arg Asp Pro Asp Glu Pro Val Leu
 245 250 255
 Leu Glu Glu Pro Val Val Leu Ala Leu Ala Glu Lys Tyr Gly Arg Ser
 260 265 270
 Pro Ala Gln Ile Leu Leu Arg Trp Gln Val Gln Arg Lys Val Ile Cys
 275 280 285
 Ile Pro Lys Ser Ile Thr Pro Ser Arg Ile Leu Gln Asn Ile Lys Val
 290 295 300
 Phe Asp Phe Thr Phe Ser Pro Glu Glu Met Lys Gln Leu Asn Ala Leu
 305 310 315 320
 Asn Lys Asn Trp Arg Tyr Ile Val Pro Met Leu Thr Val Asp Gly Lys
 325 330 335
 Arg Val Pro Arg Asp Ala Gly His Pro Leu Tyr Pro Phe Asn Asp Pro
 340 345 350

Tyr

4130

<210> 4559

<211> 275

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (271)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (272)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (273)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4559

Gly	Arg	Val	Gly	Gly	Arg	Val	Gly	Pro	Arg	Asp	Pro	Lys	Ala	Pro	Gly
1				5					10					15	

Gln	Phe	Gly	Arg	Pro	Val	Val	Val	Pro	His	Gly	Lys	Glu	Lys	Glu	Ala
			20					25					30		

Glu	Arg	Arg	Trp	Lys	Glu	Gly	Asn	Phe	Asn	Val	Tyr	Leu	Ser	Asp	Leu
		35					40						45		

Ile	Pro	Val	Asp	Arg	Ala	Ile	Glu	Asp	Thr	Arg	Pro	Ala	Gly	Cys	Ala
		50				55					60				

Glu	Gln	Leu	Val	His	Asn	Asn	Leu	Pro	Thr	Thr	Ser	Val	Ile	Met	Cys
65					70					75					80

Phe	Val	Asp	Glu	Val	Trp	Ser	Thr	Leu	Leu	Arg	Ser	Val	His	Ser	Val
				85					90					95	

Ile	Asn	Arg	Ser	Pro	Pro	His	Leu	Ile	Lys	Glu	Ile	Leu	Leu	Val	Asp
			100					105					110		

Asp	Phe	Ser	Thr	Lys	Asp	Tyr	Leu	Lys	Asp	Asn	Leu	Asp	Lys	Tyr	Met
		115					120					125			

Ser	Gln	Phe	Pro	Lys	Val	Arg	Ile	Leu	Arg	Leu	Lys	Glu	Arg	His	Gly
						135					140				

Leu	Ile	Arg	Ala	Arg	Leu	Ala	Gly	Ala	Gln	Asn	Ala	Thr	Gly	Asp	Val
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

[illegible]

Leu Lys Glu Leu Ile Gln Lys Glu Leu Thr Xaa Gly Ser Lys Leu Gln
50 55 60

4132

Asp Ala Glu Ile Ala Arg Leu Met Glu Asp Leu Asp Arg Asn Lys Asp
 65 70 75 80

Gln Glu Val Asn Phe Gln Glu Tyr Val Thr Phe Leu Gly Ala Leu Ala
 85 90 95

Leu Ile Tyr Asn Glu Ala Leu Lys Gly
 100 105

<210> 4561

<211> 176

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (146)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4561

Leu Thr Lys Gly Asn Lys Ser Trp Ser Ser Thr Ala Val Ala Ala Ala
 1 5 10 15

Leu Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg Ala Ala
 20 25 30

Gly His Glu Lys Leu Pro Val His Val Glu Asp Ala Leu Thr Tyr Leu
 35 40 45

Asp Gln Val Lys Ile Arg Phe Gly Ser Asp Pro Ala Thr Tyr Asn Gly
 50 55 60

Phe Leu Glu Ile Met Lys Glu Phe Lys Ser Gln Ser Ile Asp Thr Pro
 65 70 75 80

Gly Val Ile Arg Arg Val Ser Gln Leu Phe His Glu His Pro Asp Leu
 85 90 95

Ile Val Gly Phe Asn Ala Phe Leu Pro Leu Gly Tyr Arg Ile Asp Ile
 100 105 110

Pro Lys Asn Gly Lys Leu Asn Ile Gln Ser Pro Leu Thr Ser Gln Glu
 115 120 125

Asn Ser His Asn His Gly Asp Gly Ala Glu Asp Phe Lys Gln Gln Val
 130 135 140

Pro Xaa Lys Glu Asp Lys Pro Gln Val Pro Leu Glu Ser Asp Ser Val
 145 150 155 160

4133

Glu Phe Asn Asn Ala Ile Ser Tyr Val Asn Lys Ile Lys Thr Arg Phe
 165 170 175

<210> 4562

<211> 136

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4562

His Glu Xaa Arg Glu His Ala Gly Pro Lys Met Ala Ala Ser Arg Tyr
 1 5 10 15

Arg Arg Phe Leu Lys Leu Cys Glu Glu Trp Pro Val Asp Glu Thr Lys
 20 25 30

Arg Gly Arg Asp Leu Gly Ala Tyr Leu Arg Gln Arg Val Ala Gln Ala
 35 40 45

Phe Arg Glu Gly Glu Asn Thr Gln Val Ala Glu Pro Glu Ala Cys Asp
 50 55 60

Gln Met Tyr Glu Ser Leu Ala Arg Leu His Ser Asn Tyr Tyr Lys His
 65 70 75 80

Lys Tyr Pro Arg Pro Arg Asp Thr Ser Phe Ser Gly Leu Ser Leu Glu
 85 90 95

Glu Tyr Lys Leu Ile Leu Ser Thr Asp Thr Leu Glu Glu Leu Lys Glu
 100 105 110

Ile Asp Lys Gly Met Trp Lys Lys Leu Gln Glu Lys Phe Ala Pro Lys
 115 120 125

Gly Pro Glu Glu Asp His Lys Ala
 130 135

<210> 4563

<211> 283

4134

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (41)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (101)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4563

Lys	Arg	Lys	Ile	Met	Ile	Lys	Arg	His	Glu	Val	Glu	Gln	Gln	Asn	Ile
1				5					10					15	

Arg	Glu	Glu	Leu	Asn	Lys	Lys	Arg	Thr	Gln	Lys	Glu	Met	Glu	His	Ala
			20				25						30		

Met	Leu	Ile	Arg	His	Asp	Glu	Ser	Xaa	Arg	Glu	Leu	Glu	Tyr	Arg	Gln
		35					40					45			

Leu	His	Thr	Leu	Gln	Lys	Leu	Arg	Met	Asp	Leu	Ile	Arg	Leu	Gln	His
	50					55					60				

Gln	Thr	Glu	Leu	Glu	Asn	Gln	Leu	Glu	Tyr	Asn	Lys	Arg	Arg	Glu	Arg
65					70					75					80

Glu	Leu	His	Arg	Lys	His	Val	Met	Glu	Leu	Arg	Gln	Gln	Pro	Lys	Asn
				85					90					95	

Leu	Lys	Ala	Met	Xaa	Met	Gln	Ile	Lys	Lys	Gln	Phe	Gln	Asp	Thr	Cys
		100						105					110		

Lys	Val	Gln	Thr	Lys	Gln	Tyr	Lys	Ala	Leu	Lys	Asn	His	Gln	Leu	Glu
		115					120					125			

Val	Thr	Pro	Lys	Asn	Glu	His	Lys	Thr	Ile	Leu	Lys	Thr	Leu	Lys	Asp
	130					135					140				

Glu	Gln	Thr	Arg	Lys	Leu	Ala	Ile	Leu	Ala	Glu	Gln	Tyr	Glu	Gln	Ser
145					150					155					160

Ile	Asn	Glu	Met	Met	Ala	Ser	Gln	Ala	Leu	Arg	Leu	Asp	Glu	Ala	Gln
			165						170					175	

Glu	Ala	Glu	Cys	Gln	Ala	Leu	Arg	Leu	Gln	Leu	Gln	Gln	Glu	Met	Glu
			180					185					190		

Leu	Leu	Asn	Ala	Tyr	Gln	Ser	Lys	Ile	Lys	Met	Gln	Thr	Glu	Ala	Gln
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4135

195 200 205
 His Glu Arg Glu Leu Gln Lys Leu Glu Gln Arg Val Ser Leu Arg Arg
 210 215 220
 Ala His Leu Glu Gln Lys Ile Glu Glu Glu Leu Ala Ala Leu Gln Lys
 225 230 235 240
 Glu Arg Ser Glu Arg Ile Lys Asn Leu Leu Glu Arg Gln Glu Arg Glu
 245 250 255
 Ile Glu Thr Phe Asp Met Glu Ser Leu Arg Met Gly Phe Gly Asn Leu
 260 265 270
 Val Thr Leu Asp Phe Pro Lys Glu Asp Tyr Arg
 275 280

<210> 4564

<211> 465

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (203)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (460)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (461)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4564

Lys Asn Met Glu Thr Glu Gln Pro Glu Glu Thr Phe Pro Asn Thr Glu
 1 5 10 15

Thr Asn Gly Glu Phe Gly Lys Arg Pro Ala Glu Asp Met Glu Glu Glu
 20 25 30

Gln Ala Phe Lys Arg Ser Arg Asn Thr Asp Glu Met Val Glu Leu Arg
 35 40 45

Ile Leu Leu Gln Ser Lys Asn Ala Gly Ala Val Ile Gly Lys Gly Gly
 50 55 60

4136

Lys Asn Ile Lys Ala Leu Arg Thr Asp Tyr Asn Ala Ser Val Ser Val
 65 70 75 80
 Pro Asp Ser Ser Gly Pro Glu Arg Ile Leu Ser Ile Ser Ala Asp Ile
 85 90 95
 Glu Thr Ile Gly Glu Ile Leu Lys Lys Ile Ile Pro Thr Leu Glu Glu
 100 105 110
 Gly Leu Gln Leu Pro Ser Pro Thr Ala Thr Ser Gln Leu Pro Leu Glu
 115 120 125
 Ser Asp Ala Val Glu Cys Leu Asn Tyr Gln His Tyr Lys Gly Ser Asp
 130 135 140
 Phe Asp Cys Glu Leu Arg Leu Leu Ile His Gln Ser Leu Ala Gly Gly
 145 150 155 160
 Ile Ile Gly Val Lys Gly Ala Lys Ile Lys Glu Leu Arg Glu Asn Thr
 165 170 175
 Gln Thr Thr Ile Lys Leu Phe Gln Glu Cys Cys Pro His Ser Thr Asp
 180 185 190
 Arg Val Val Leu Ile Gly Gly Lys Pro Asp Xaa Val Val Glu Cys Ile
 195 200 205
 Lys Ile Ile Leu Asp Leu Ile Ser Glu Ser Pro Ile Lys Gly Arg Ala
 210 215 220
 Gln Pro Tyr Asp Pro Asn Phe Tyr Asp Glu Thr Tyr Asp Tyr Gly Gly
 225 230 235 240
 Phe Thr Met Met Phe Asp Asp Arg Arg Gly Arg Pro Val Gly Phe Pro
 245 250 255
 Met Arg Gly Arg Gly Gly Phe Asp Arg Met Pro Pro Gly Arg Gly Gly
 260 265 270
 Arg Pro Met Pro Pro Ser Arg Arg Asp Tyr Asp Asp Met Ser Pro Arg
 275 280 285
 Arg Gly Pro Pro Pro Pro Pro Pro Gly Arg Gly Gly Arg Gly Gly Ser
 290 295 300
 Arg Ala Arg Asn Leu Pro Leu Pro Pro Pro Pro Pro Pro Arg Gly Gly
 305 310 315 320
 Asp Leu Met Ala Tyr Asp Arg Arg Gly Arg Pro Gly Asp Arg Tyr Asp
 325 330 335

4137

Gly Met Val Gly Phe Ser Ala Asp Glu Thr Trp Asp Ser Ala Ile Asp
 340 345 350
 Thr Trp Ser Pro Ser Glu Trp Gln Met Ala Tyr Glu Pro Gln Gly Gly
 355 360 365
 Ser Gly Tyr Asp Tyr Ser Tyr Ala Gly Gly Arg Gly Ser Tyr Gly Asp
 370 375 380
 Leu Gly Gly Pro Ile Ile Thr Thr Gln Val Thr Ile Pro Lys Asp Leu
 385 390 395 400
 Ala Gly Ser Ile Ile Gly Lys Gly Gly Gln Arg Ile Lys Gln Ile Arg
 405 410 415
 His Glu Ser Gly Ala Ser Ile Lys Ile Asp Glu Pro Leu Glu Gly Ser
 420 425 430
 Glu Asp Arg Ile Ile Thr Ile Thr Gly Thr Gln Asp Gln Ile Gln Asn
 435 440 445
 Ala Gln Tyr Leu Leu Gln Asn Ser Val Ser Ser Xaa Xaa Leu Ala Leu
 450 455 460
 Cys
 465

<210> 4565

<211> 82

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (82)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4565

Gln Leu Gly Pro Val Val Gly Gly Trp Tyr Lys Val Leu Asp Arg Phe
 1 5 10 15

Ile Pro Gly Thr Thr Lys Val Asp Ala Leu Lys Lys Met Leu Leu Asp
 20 25 30

Gln Gly Gly Phe Ala Pro Cys Phe Leu Gly Cys Phe Leu Pro Leu Val
 35 40 45

Gly Ala Leu Asn Gly Leu Ser Ala Gln Asp Asn Trp Pro Asn Tyr Ser

4138

50 55 60
 Gly Ile Ile Leu Met Pro Leu Ser Pro Thr Thr Ile Tyr Gly Leu Leu
 65 70 75 80

Cys Xaa

<210> 4566
 <211> 63
 <212> PRT
 <213> Homo sapiens

<400> 4566
 Glu Gln Lys Ser Ile Gln Asp Leu Gln Ala Leu Leu Trp Met Arg Leu
 1 5 10 15
 Ile Thr Met Glu Ala Ser Asn Thr His Leu Ser Met Ala Leu Ile Phe
 20 25 30
 Ser Thr Ser Trp Pro Leu Lys Met Thr Tyr Asn Phe Ser Val Cys Phe
 35 40 45
 Thr Ile Phe Tyr Lys Glu Asn Ser Ile Leu Trp Leu Ile Glu His
 50 55 60

<210> 4567
 <211> 73
 <212> PRT
 <213> Homo sapiens

<400> 4567
 Trp Ile Pro Arg Ala Ala Gly Ile Arg His Glu Gln Arg Arg Gly Gly
 1 5 10 15
 Val Arg Glu Asn Met Leu Val Lys Tyr Ala Gly Arg Leu Gly Asp Thr
 20 25 30
 Lys Gln Arg Phe Arg His Ser Lys Ala Gly Met Arg Ser Ser Lys Leu
 35 40 45
 Cys Phe Asn Lys Leu His Trp Arg Val Pro Tyr Ser Leu Lys Phe Gly
 50 55 60
 Asn His Asp Pro Glu Pro Gly Trp Ala
 65 70

4139

<210> 4568

<211> 98

<212> PRT

<213> Homo sapiens

<400> 4568

Arg Thr Lys Asn Lys Thr Leu Ile Pro Thr Phe Ile Ser Thr Leu Ala
 1 5 10 15

Lys Thr Gly Leu Ala Phe Phe Ser Asn Ser Ser Phe Ile Ser Ser Leu
 20 25 30

Pro Cys Pro Ser Leu Pro Phe Leu Ser Gly Ile Gly Ser Val Leu Pro
 35 40 45

Ile His Met Ala Ala Ser Leu Ile Ala Leu Val Gln Gly Ile Arg Tyr
 50 55 60

Cys Ala Phe Trp Cys Gln Val Gln Ser Gln Val Pro Ile Tyr Glu Pro
 65 70 75 80

Val Tyr Lys Lys Lys Lys Ile Gln Val Phe Glu Gly Glu Thr Leu His
 85 90 95

Cys Glu

<210> 4569

<211> 122

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (90)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4569

Ala Leu Gly Phe Ser Ala Glu Gly Ala Pro Phe Pro Leu Asp Gly Ser
 1 5 10 15

Cys His Val Ile Phe Glu Asn Ser Trp Thr Ala Pro Glu Glu Ala Leu
 20 25 30

Phe Ser Ser Arg Lys Leu Asp Gly Gly Ser Gln Lys Trp Leu Ile Gly
 35 40 45

4140

Arg Gly Gln Ala Ser Phe Gln Gly Ser Ala Val Pro Ser Trp Phe Arg
50 55 60

Glu Gly Arg Ala Trp Leu Ser Leu Ala Leu Ser Leu Ser Pro Cys Leu
65 70 75 80

Ser Ile Thr Thr Phe Pro Pro Glu Glu Xaa Asn Tyr Leu Pro Cys Lys
85 90 95

Ala Arg Phe Tyr Thr Asp Phe Thr Asn Cys Ala Lys Asn Arg Pro Cys
100 105 110

Ser Gln Lys Ala Gln Cys Phe Cys Lys Glu
115 120

<210> 4570

<211> 89

<212> PRT

<213> Homo sapiens

<400> 4570

Pro Ser Cys Gln Arg Pro Lys Ser Val Ser Trp Cys His Val His Thr
1 5 10 15

Pro Cys His Phe Thr Leu His Leu Ser Pro Ser Phe Pro Met His Ala
20 25 30

Tyr Ser Glu His Pro Cys Val Gly Pro Ser Ser Ala Ser Arg Ala Cys
35 40 45

Ser Ala Val Gly Leu Phe Cys Gly Arg Lys Glu Ala Val Ser Ala Phe
50 55 60

Ser Asp Gly Thr Gly Val Glu Gly Arg Ser Cys Ile Val Ala Leu Leu
65 70 75 80

Asn Ser Pro Phe Cys Ser Ile Leu Val
85

<210> 4571

<211> 148

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (51)

4141

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4571

Ser	Asn	Val	Ile	Arg	Asn	Glu	Gln	Leu	Pro	Leu	Gln	Tyr	Leu	Ala	Asp
1				5					10					15	

Val	Asp	Thr	Ser	Asp	Glu	Glu	Ser	Ile	Arg	Ala	His	Val	Met	Ala	Ser
			20					25					30		

His	His	Ser	Lys	Arg	Arg	Gly	Arg	Ala	Ser	Ser	Glu	Ser	Gln	Gly	Leu
		35					40					45			

Gly	Ala	Xaa	Xaa	Arg	Thr	Xaa	Ala	Asp	Val	Glu	Glu	Glu	Ala	Leu	Arg
	50					55					60				

Arg	Lys	Leu	Glu	Glu	Leu	Thr	Ser	Asn	Val	Ser	Asp	Gln	Glu	Thr	Ser
65					70					75					80

Ser	Glu	Glu	Glu	Glu	Ser	Lys	Asp	Glu	Lys	Ala	Glu	Pro	Asn	Arg	Asp
					85				90					95	

Lys	Ser	Val	Gly	Pro	Leu	Pro	Gln	Ala	Asp	Pro	Glu	Val	Ala	Arg	Leu
			100					105					110		

Pro	Ile	Lys	Pro	Thr	Asp	Arg	Lys	Lys	Ala	Pro	Arg	Thr	Leu	Gly	Thr
		115					120					125			

Pro	Ser	Ser	Thr	Thr	Gly	Pro	Gln	Met	Arg	Ser	Cys	Gln	Ser	Trp	Arg
	130					135					140				

Thr	Glu	Trp	Gln
145			

<210> 4572

<211> 231

<212> PRT

<213> Homo sapiens

<400> 4572

4142

Ala Leu Ser Pro Ala Met Val Val Pro Glu Asp Gln Leu Thr Arg Trp
 1 5 10 15
 His Pro Arg Phe Asn Val Asp Glu Val Pro Asp Ile Glu Pro Ala Ala
 20 25 30
 Leu Pro Gln Pro Pro Ala Thr Glu Lys Leu Thr Thr Ala Gln Glu Val
 35 40 45
 Leu Ala Arg Ala Arg Asn Leu Ile Ser Pro Arg Met Glu Lys Ala Leu
 50 55 60
 Ser Gln Leu Ala Leu Arg Ser Ala Ala Pro Ser Ser Pro Gly Ser Pro
 65 70 75 80
 Arg Pro Ala Leu Pro Ala Thr Pro Pro Ala Thr Pro Pro Ala Ala Ser
 85 90 95
 Pro Ser Ala Leu Lys Gly Val Ser Gln Asp Leu Leu Glu Arg Ile Arg
 100 105 110
 Ala Lys Glu Ala Gln Lys Gln Leu Ala Gln Met Thr Arg Cys Pro Glu
 115 120 125
 Gln Glu Gln Arg Leu Gln Arg Leu Glu Arg Leu Pro Glu Leu Ala Arg
 130 135 140
 Val Leu Arg Ser Val Phe Val Ser Glu Arg Lys Pro Ala Leu Ser Met
 145 150 155 160
 Glu Val Ala Cys Ala Arg Met Val Gly Ser Cys Cys Thr Ile Met Ser
 165 170 175
 Pro Gly Glu Met Glu Lys His Leu Leu Leu Leu Ser Glu Leu Leu Pro
 180 185 190
 Asp Trp Leu Ser Leu His Arg Ile Arg Thr Asp Thr Tyr Val Lys Leu
 195 200 205
 Asp Lys Ala Ala Asp Leu Ala His Ile Thr Ala Arg Leu Ala His Gln
 210 215 220
 Thr Arg Ala Glu Glu Gly Leu
 225 230

<210> 4573

<211> 102

<212> PRT

<213> Homo sapiens

4143

<400> 4573

```

Asp Pro Arg Val Arg His Ala Ser Gly Gly Phe Ser Leu Gly Gly Gln
 1             5             10             15

Thr Lys Trp Gln Trp Gly Pro Gly Cys Pro Leu Leu Arg Asn Gly Glu
             20             25             30

Leu Phe Ser Pro Val Leu Leu Trp Gly Leu Pro Cys Gly Thr Lys Cys
             35             40             45

Leu Gly Glu Glu Leu Leu Ala Gly Leu Gln Leu Leu Phe Val Arg Gly
             50             55             60

Gln Leu Gly Leu Val His Pro Cys Ser Glu Leu Ala Pro Lys Arg Ala
 65             70             75             80

Met Leu Asn Ser Ser Pro Ser Pro Ser Arg Gln Pro Leu Ser Leu His
             85             90             95

Ala Arg Gly Ile Gln Leu
             100

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<210> 4574

<211> 88

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (88)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4574

```

Arg Ser Ile Gly Gly Phe Phe Pro Ala Gly Leu Thr Thr Leu Leu Ser
 1             5             10             15

Gly Leu Lys Pro Phe His Thr Phe Ile Leu Phe Phe Asn Gln Lys Ser
             20             25             30

Phe Ser Tyr Lys Ile Asn Phe Gly Gln Thr Xaa Lys Lys Lys Lys Lys
             35             40             45

Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys

```

4144

50 55 60
 Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
 65 70 75 80
 Lys Lys Lys Lys Gly Gly Pro Xaa
 85

 <210> 4575
 <211> 240
 <212> PRT
 <213> Homo sapiens

 <400> 4575
 Pro Thr Ala His Cys Arg Arg Leu Gly Ala Ala Glu Ala Arg Gly Ala
 1 5 10 15
 Arg Ser Trp Arg Leu Pro Val Pro Arg Leu Cys Arg Pro His Ser Arg
 20 25 30
 Gly Ala Lys Gly Gly Arg Pro Ala Ser Gly Pro Leu Pro Ser Leu Ser
 35 40 45
 Leu Arg Cys Cys Glu Arg Arg Pro Leu Arg Arg Arg Pro Ala Thr Gly
 50 55 60
 Ala Met Ser Ala Asn Glu Asp Gln Glu Met Glu Leu Glu Ala Leu Arg
 65 70 75 80
 Ser Ile Tyr Glu Gly Asp Glu Ser Phe Arg Glu Leu Ser Pro Val Ser
 85 90 95
 Phe Gln Tyr Arg Ile Gly Glu Asn Gly Asp Pro Lys Ala Phe Leu Ile
 100 105 110
 Glu Ile Ser Trp Thr Glu Thr Tyr Pro Gln Thr Pro Pro Ile Leu Ser
 115 120 125
 Met Asn Ala Phe Phe Asn Asn Thr Ile Ser Ser Ala Val Lys Gln Ser
 130 135 140
 Ile Leu Ala Lys Leu Gln Glu Ala Val Glu Ala Asn Leu Gly Thr Ala
 145 150 155 160
 Met Thr Tyr Thr Leu Phe Glu Tyr Ala Lys Asp Asn Lys Glu Gln Phe
 165 170 175
 Met Glu Asn His Asn Pro Ile Asn Ser Ala Thr Ser Ile Ser Asn Ile
 180 185 190

4145

Ile Ser Ile Glu Thr Pro Asn Thr Ala Pro Ser Ser Lys Lys Lys Asp
 195 200 205

Lys Lys Glu Gln Leu Ser Lys Ala Gln Lys Arg Asn Trp Gln Thr Lys
 210 215 220

Gln Ile Thr Lys Glu Asn Phe Leu Glu Ala Gly Thr Gly Leu Met Leu
 225 230 235 240

<210> 4576

<211> 89

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4576

Asp Ala Trp Xaa Xaa Lys Lys Glu Lys Glu Lys Glu Lys Lys Arg Lys
 1 5 10 15

Gly Thr Ser Asp Met Thr Ala Cys Met Lys Ser Asn Arg Val Thr Pro
 20 25 30

Val Lys Leu Lys Ser Arg Ala Val Asp Ile Leu Ser Asn Gln Gln Glu
 35 40 45

Val Ser Arg Asn Gln Ala Val Gln Leu Leu Leu Ser Ala Ile Val Ser
 50 55 60

Ser Gln Lys Met His Asp Asp Gly Val Val Gly Glu Gly Gln Phe Ser
 65 70 75 80

Ile Leu Phe Lys Ser Lys Leu Pro Glu
 85

4146

<210> 4577

<211> 115

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4577

Pro	Thr	Arg	Pro	Met	Val	Ser	Ser	Ile	Gln	Ala	Ser	Met	Asp	Arg	His
1				5					10					15	

Leu	Arg	Asp	Gln	Ser	Thr	Glu	Gln	Ser	Pro	Ser	Asp	Leu	Pro	Gln	Arg
			20					25					30		

Xaa	Thr	Glu	Val	Val	Ser	Ser	Ser	Ala	Lys	Ser	Gly	Ser	Leu	Gln	Thr
			35				40					45			

Gly	Leu	Pro	Glu	Ser	Phe	Pro	Leu	Thr	Gly	Gly	Thr	Glu	Asn	Leu	Asn
	50					55					60				

Thr	Glu	Thr	Thr	Asp	Gly	Cys	Val	Ala	Asp	Ala	Leu	Gly	Ala	Ala	Phe
65					70					75					80

Ala	Thr	Arg	Ser	Lys	Ala	Gln	Arg	Gly	Asn	Ser	Val	Glu	Glu	Leu	Glu
				85					90					95	

Glu	Met	Asp	Ser	Gln	Asp	Ala	Glu	Met	Thr	Asn	Thr	Thr	Glu	Pro	Met
			100					105					110		

Asp	His	Ser
		115

<210> 4578

<211> 116

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (107)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (108)

<223> Xaa equals any of the naturally occurring L-amino acids

4147

<400> 4578

Leu Lys Asn His Gln Lys Thr His Thr Ser Glu Lys Ser Tyr Lys Cys
 1 5 10 15

Asn Glu Cys Arg Lys Ala Phe Ser Tyr Cys Ser Gly Leu Ile Gln Cys
 20 25 30

Gln Val Ile His Thr Ile Glu Lys Pro Tyr Glu Tyr Gly Lys Cys Gly
 35 40 45

Lys Ala Phe Arg Gln Arg Thr Asp Leu Lys Lys His Gln Lys Met His
 50 55 60

Thr Glu Glu Lys Pro Tyr Glu Cys Asn Glu Cys Gly Lys Ala Phe Ser
 65 70 75 80

Gln Ser Thr Tyr Leu Thr Lys His Gln Lys Ile His Ser Glu Glu Lys
 85 90 95

Ser Asn Ile His Thr Glu Cys Gly Glu Thr Xaa Xaa Gln Asn Ser Ser
 100 105 110

Phe Leu Gln Gln
 115

<210> 4579

<211> 598

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (144)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4579

Ala Thr Ser Arg Gln Pro Ser Tyr Xaa Arg Thr Trp Cys Arg Arg Cys
 1 5 10 15

Cys Leu Pro Leu Ala Leu Asn Pro Val Pro Ala Ala Met Ala Pro Gly
 20 25 30

Gln Leu Ala Leu Phe Ser Val Ser Asp Lys Thr Gly Leu Val Glu Phe

35					40					45					
Ala	Arg	Asn	Leu	Thr	Ala	Leu	Gly	Leu	Asn	Leu	Val	Ala	Ser	Gly	Gly
50						55				60					
Thr	Ala	Lys	Ala	Leu	Arg	Asp	Ala	Gly	Leu	Ala	Val	Arg	Asp	Val	Ser
65				70						75				80	
Glu	Leu	Thr	Gly	Phe	Pro	Glu	Met	Leu	Gly	Gly	Arg	Val	Lys	Thr	Leu
				85				90						95	
His	Pro	Ala	Val	His	Ala	Gly	Ile	Leu	Ala	Arg	Asn	Ile	Pro	Glu	Asp
		100						105				110			
Asn	Ala	Asp	Met	Ala	Arg	Leu	Asp	Phe	Asn	Leu	Ile	Arg	Val	Val	Ala
		115				120						125			
Cys	Asn	Leu	Tyr	Pro	Phe	Val	Lys	Thr	Val	Ala	Ser	Pro	Gly	Val	Xaa
130						135				140					
Val	Glu	Glu	Ala	Val	Glu	Gln	Ile	Asp	Ile	Gly	Gly	Val	Thr	Leu	Leu
145				150						155				160	
Arg	Ala	Ala	Ala	Lys	Asn	His	Ala	Arg	Val	Thr	Val	Val	Cys	Glu	Pro
				165				170						175	
Glu	Asp	Tyr	Val	Val	Val	Ser	Thr	Glu	Met	Gln	Ser	Ser	Glu	Ser	Lys
		180						185				190			
Asp	Thr	Ser	Leu	Glu	Thr	Arg	Arg	Gln	Leu	Ala	Leu	Lys	Ala	Phe	Thr
		195				200						205			
His	Thr	Ala	Gln	Tyr	Asp	Glu	Ala	Ile	Ser	Asp	Tyr	Phe	Arg	Lys	Gln
210						215				220					
Tyr	Ser	Lys	Gly	Val	Ser	Gln	Met	Pro	Leu	Arg	Tyr	Gly	Met	Asn	Pro
225				230						235				240	
His	Gln	Thr	Pro	Ala	Gln	Leu	Tyr	Thr	Leu	Gln	Pro	Lys	Leu	Pro	Ile
		245						250						255	
Thr	Val	Leu	Asn	Gly	Ala	Pro	Gly	Phe	Ile	Asn	Leu	Cys	Asp	Ala	Leu
		260				265						270			
Asn	Ala	Trp	Gln	Leu	Val	Lys	Glu	Leu	Lys	Glu	Ala	Leu	Gly	Ile	Pro
275						280				285					
Ala	Ala	Ala	Ser	Phe	Lys	His	Val	Ser	Pro	Ala	Gly	Ala	Ala	Val	Gly
290						295				300					
Ile	Pro	Leu	Ser	Glu	Asp	Glu	Ala	Lys	Val	Cys	Met	Val	Tyr	Asp	Leu

4149

305		310		315		320
Tyr Lys Thr Leu Thr Pro Ile Ser Ala Ala Tyr Ala Arg Ala Arg Gly						
	325		330		335	
Ala Asp Arg Met Ser Ser Phe Gly Asp Phe Val Ala Leu Ser Asp Val						
	340		345		350	
Cys Asp Val Pro Thr Ala Lys Ile Ile Ser Arg Glu Val Ser Asp Gly						
	355		360		365	
Ile Ile Ala Pro Gly Tyr Glu Glu Glu Ala Leu Thr Ile Leu Ser Lys						
	370		375		380	
Lys Lys Asn Gly Asn Tyr Cys Val Leu Gln Met Asp Gln Ser Tyr Lys						
	385		390		395	
Pro Asp Glu Asn Glu Val Arg Thr Leu Phe Gly Leu His Leu Ser Gln						
	405		410		415	
Lys Arg Asn Asn Gly Val Val Asp Lys Ser Leu Phe Ser Asn Val Val						
	420		425		430	
Thr Lys Asn Lys Asp Leu Pro Glu Ser Ala Leu Arg Asp Leu Ile Val						
	435		440		445	
Ala Thr Ile Ala Val Lys Tyr Thr Gln Ser Asn Ser Val Cys Tyr Ala						
	450		455		460	
Lys Asn Gly Gln Val Ile Gly Ile Gly Ala Gly Gln Gln Ser Arg Ile						
	465		470		475	
His Cys Thr Arg Leu Ala Gly Asp Lys Ala Asn Tyr Trp Trp Leu Arg						
	485		490		495	
His His Pro Gln Val Leu Ser Met Lys Phe Lys Thr Gly Val Lys Arg						
	500		505		510	
Ala Glu Ile Ser Asn Ala Ile Asp Gln Tyr Val Thr Gly Thr Ile Gly						
	515		520		525	
Glu Asp Glu Asp Leu Ile Lys Trp Lys Ala Leu Phe Glu Glu Val Pro						
	530		535		540	
Glu Leu Leu Thr Glu Ala Glu Lys Lys Glu Trp Val Glu Lys Leu Thr						
	545		550		555	
Glu Val Ser Ile Ser Ser Asp Ala Phe Phe Pro Phe Arg Asp Asn Val						
	565		570		575	
Asp Arg Ala Lys Arg Ser Gly Val Ala Tyr Ile Ala Ala Pro Pro Val						

4150

580

585

590

Leu Leu Leu Thr Lys Leu
595

<210> 4580

<211> 48

<212> PRT

<213> Homo sapiens

<400> 4580

Cys Ile Ser Lys Gly Glu Lys Arg Ile Gly Ile Phe Leu Phe Asn Ile
1 5 10 15

Gln Phe Ile Glu Ser Ser Thr Leu Ile Phe Leu Asn Pro Arg Ser Ser
20 25 30

Gly Ser Tyr His Phe Lys Arg Asn Tyr His Gln Phe Cys Val Ser Lys
35 40 45

<210> 4581

<211> 50

<212> PRT

<213> Homo sapiens

<400> 4581

His Val Phe Leu Pro Cys Ser Leu Pro Gly Arg Met Glu Phe Tyr Ile
1 5 10 15

Thr Thr Phe Leu Cys Lys Asn Asn Gly Arg Val Glu Leu Val Val Ile
20 25 30

Leu Ala Phe His Leu Ala Leu Val Ser Ser Ile Gly Leu Glu Ile Ile
35 40 45

Gly Arg
50

<210> 4582

<211> 45

<212> PRT

<213> Homo sapiens

4151

<400> 4582

Gly Leu Met Glu Ile Glu Ile Thr Cys Lys Asp Ile Thr Val Phe Met
 1 5 10 15
 Ser Tyr Ile Leu Val Leu Glu Ile Val Glu Cys Met Ile Asp Asn Ile
 20 25 30
 Phe Leu Ile Phe Ile Phe Ser Ser Asn Thr Ser Thr Val
 35 40 45

<210> 4583

<211> 125

<212> PRT

<213> Homo sapiens

<400> 4583

Asn Asp Ser Asn Thr Ala Leu Leu His His Glu Thr Asn Pro Gly Gln
 1 5 10 15
 Asp Pro Ile Pro Ser His Gln Pro Thr Ser Leu Leu Ala Ala Gly Gln
 20 25 30
 Asp Val Ala Ser Ile Thr Phe His Cys Leu Ser Pro Trp Glu Ala Ala
 35 40 45
 Gln Leu Arg Leu Gly Thr Arg Pro Pro Leu Leu Gly Pro Thr Gly Lys
 50 55 60
 Ser Val Ala Ala Thr Ala Trp Leu Thr Phe Leu Ser Ser Leu Gly Ser
 65 70 75 80
 Gly Thr Ala Pro Pro Cys Pro Trp Leu Gly Arg Gly Glu Lys Lys Leu
 85 90 95
 Ser Tyr Ala Phe Pro Leu Pro Leu Val Tyr Arg Thr Ser Leu Pro Ser
 100 105 110
 Gln Gln Glu Arg Arg Pro Pro Gly Val Ser Pro Gly Gln
 115 120 125

<210> 4584

<211> 342

<212> PRT

<213> Homo sapiens

<220>

4152

<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (18)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (25)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (45)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (47)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (52)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (53)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (55)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (59)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE

4153

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (279)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4584

Ile	Thr	Trp	Pro	Thr	Thr	Gly	Pro	Xaa	Ala	Leu	Asn	Leu	Gln	Ala	His
1				5					10					15	
Trp	Xaa	Gly	Pro	Gly	Ser	Ala	Arg	Xaa	Ala	Xaa	His	His	Leu	Glu	Tyr
			20					25					30		
Arg	Cys	Ala	Pro	Arg	Pro	Pro	Ala	Val	Cys	Trp	His	Xaa	Val	Xaa	Arg
		35					40					45			
Gly	Ala	Lys	Xaa	Xaa	Ala	Xaa	Ala	Gln	Ser	Xaa	Xaa	Xaa	Asp	Thr	Cys
	50					55					60				
Ser	Val	Gln	Asn	Gly	Glu	Asp	Asp	Gly	Arg	Asn	Gln	Ala	Arg	Leu	Gly
65				70						75				80	
His	Arg	Gly	Thr	Leu	Ala	Leu	Gly	Ser	Leu	Leu	Ala	Gln	Gly	Phe	Asn
				85					90					95	
Val	Arg	Leu	Ser	Gly	Gln	Asp	Val	Gly	Arg	Gly	Thr	Phe	Ser	Gln	Arg
		100						105					110		
His	Ala	Met	Val	Val	Cys	Gln	Glu	Thr	Asp	Asp	Thr	Tyr	Ile	Pro	Leu
		115					120					125			
Asn	His	Met	Asp	Pro	Asn	Gln	Lys	Gly	Phe	Leu	Glu	Val	Ser	Asn	Ser
		130				135					140				
Pro	Leu	Ser	Glu	Glu	Ala	Val	Leu	Gly	Phe	Glu	Tyr	Gly	Met	Ser	Ile
145					150					155					160
Glu	Ser	Pro	Lys	Leu	Leu	Pro	Leu	Trp	Glu	Ala	Gln	Phe	Gly	Asp	Phe
				165					170					175	
Phe	Asn	Gly	Ala	Gln	Ile	Ile	Phe	Asp	Thr	Phe	Ile	Ser	Gly	Gly	Glu
			180					185					190		
Ala	Lys	Trp	Leu	Leu	Gln	Ser	Gly	Ile	Val	Ile	Leu	Leu	Pro	His	Gly

4154

195 200 205
 Tyr Asp Gly Ala Gly Pro Asp His Ser Ser Cys Arg Ile Glu Arg Phe
 210 215 220
 Leu Gln Met Cys Asp Ser Ala Glu Glu Gly Val Asp Gly Asp Thr Val
 225 230 235 240
 Asn Met Phe Val Val His Pro Thr Thr Pro Ala Gln Tyr Phe His Leu
 245 250 255
 Leu Arg Arg Gln Met Val Arg Asn Phe Arg Lys Pro Leu Ile Val Ala
 260 265 270
 Ser Pro Lys Met Leu Leu Xaa Leu Pro Ala Ala Val Ser Thr Leu Gln
 275 280 285
 Glu Met Ala Pro Gly Thr Thr Phe Asn Pro Val Ile Gly Asp Ser Ser
 290 295 300
 Val Asp Pro Lys Lys Val Lys Thr Leu Val Phe Cys Ser Gly Lys His
 305 310 315 320
 Phe Tyr Ser Leu Val Asn Lys Glu Asn Leu Trp Gly Pro Arg Ser Met
 325 330 335
 Thr Leu Pro Ser Ser Glu
 340

<210> 4585

<211> 59

<212> PRT

<213> Homo sapiens

<400> 4585

Asn Leu Tyr Lys Leu Lys Leu Asn His Glu Leu Gln Lys Lys Ser Ile
 1 5 10 15
 Leu Pro Lys Leu Asp Val Thr Thr Leu Thr Ser Leu Lys Tyr Glu Val
 20 25 30
 Asp Cys Leu Lys Asp Ser Ala Tyr Ile Leu Val Cys Thr Phe Arg Asn
 35 40 45
 Ile Phe Leu Gly Lys Ser Thr Gln His Phe Leu
 50 55

4155

<210> 4586

<211> 98

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (66)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (90)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4586

Val	His	Leu	Lys	Ala	Val	Lys	Met	Val	Leu	Ala	Asp	Leu	Gly	Arg	Lys
1				5					10					15	

Ile	Thr	Ser	Ala	Leu	Arg	Ser	Leu	Ser	Asn	Ala	Thr	Ile	Ile	Asn	Glu
			20					25					30		

Glu	Val	Cys	Lys	Ile	Leu	Tyr	Xaa	Ile	Tyr	Met	Ile	Val	Leu	Leu	Ser
		35					40					45			

Leu	Ala	Leu	Gly	Arg	Trp	Leu	Ile	His	Asn	Pro	Arg	Ile	Tyr	Met	Tyr
	50					55					60				

Phe	Xaa	Val	Asp	Leu	Ile	Leu	Val	Gly	Lys	Ser	Pro	Lys	Gly	Leu	Thr
65					70					75				80	

Val	Gly	Gly	Val	Tyr	Trp	Gly	Ile	Thr	Xaa	Asn	Ser	Asn	Tyr	Phe	Asn
				85					90					95	

Leu Pro

<210> 4587

<211> 72

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

4156

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4587

Gly	Lys	Leu	Gly	Met	Leu	Gly	Gln	Glu	Gly	Lys	Val	Leu	Val	Asn	Pro
1				5					10					15	

Leu	Trp	Ser	Asn	Ile	Met	Lys	Val	Asn	Tyr	Asn	Ser	Ile	Tyr	Leu	Ser
			20					25				30			

Leu	Met	Pro	Gln	Ser	Glu	Ile	Xaa	Tyr	Xaa	Leu	Gly	Gly	His	Gly	Cys
		35					40					45			

Ala	Pro	Ile	Gln	Tyr	Thr	Phe	Xaa	Gly	Xaa	Asn	Leu	Phe	Ser	Asp	His
		50				55					60				

Phe	Met	Glu	Ser	Leu	Lys	Tyr	Leu
65					70		

<210> 4588

<211> 385

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (221)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4588

Trp	Ile	Pro	Arg	Ala	Ala	Gly	Phe	Gly	Thr	Arg	Pro	Leu	Pro	Gly	Ala
1				5					10					15	

Ala	Gly	Gly	Ala	Ala	Gly	Cys	Thr	Gln	Arg	Arg	Ser	Arg	Glu	Leu	Ala
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

20				25				30							
Ala	Ala	Ala	Met	Ser	His	Gln	Thr	Gly	Ile	Gln	Ala	Ser	Glu	Asp	Val
35			40					45							
Lys	Glu	Ile	Phe	Ala	Arg	Ala	Arg	Asn	Gly	Lys	Tyr	Arg	Leu	Leu	Lys
50			55					60							
Ile	Ser	Ile	Glu	Asn	Glu	Gln	Leu	Val	Ile	Gly	Ser	Tyr	Ser	Gln	Pro
65			70					75					80		
Ser	Asp	Ser	Trp	Asp	Lys	Asp	Tyr	Asp	Ser	Phe	Val	Leu	Pro	Leu	Leu
85				90					95						
Glu	Asp	Lys	Gln	Pro	Cys	Tyr	Ile	Leu	Phe	Arg	Leu	Asp	Ser	Gln	Asn
100			105					110							
Ala	Gln	Gly	Tyr	Glu	Trp	Ile	Phe	Ile	Ala	Trp	Ser	Pro	Asp	His	Ser
115			120					125							
His	Val	Arg	Gln	Lys	Met	Leu	Tyr	Ala	Ala	Thr	Arg	Ala	Thr	Leu	Lys
130			135					140							
Lys	Glu	Phe	Gly	Gly	Gly	His	Ile	Lys	Asp	Glu	Val	Phe	Gly	Thr	Val
145			150					155					160		
Lys	Glu	Asp	Val	Ser	Leu	His	Gly	Tyr	Lys	Lys	Tyr	Leu	Leu	Ser	Gln
165				170					175						
Ser	Ser	Pro	Ala	Pro	Leu	Thr	Ala	Ala	Glu	Glu	Glu	Leu	Arg	Gln	Ile
180			185					190							
Lys	Ile	Asn	Glu	Val	Gln	Thr	Asp	Val	Gly	Val	Asp	Thr	Lys	His	Gln
195			200					205							
Thr	Leu	Gln	Gly	Val	Ala	Phe	Pro	Ile	Ser	Arg	Glu	Xaa	Phe	Gln	Ala
210			215					220							
Leu	Glu	Lys	Leu	Asn	Asn	Arg	Gln	Leu	Asn	Tyr	Val	Gln	Leu	Glu	Ile
225			230					235					240		
Asp	Ile	Lys	Asn	Glu	Ile	Ile	Ile	Leu	Ala	Asn	Thr	Thr	Asn	Thr	Glu
245				250					255						
Leu	Lys	Asp	Leu	Pro	Lys	Arg	Ile	Pro	Lys	Asp	Ser	Ala	Arg	Tyr	His
260			265					270							
Phe	Phe	Leu	Tyr	Lys	His	Ser	His	Glu	Gly	Asp	Tyr	Leu	Glu	Ser	Ile
275			280					285							
Val	Phe	Ile	Tyr	Ser	Met	Pro	Gly	Tyr	Thr	Cys	Ser	Ile	Arg	Glu	Arg

4158

290 295 300
 Met Leu Tyr Ser Ser Cys Lys Ser Arg Leu Leu Glu Ile Val Glu Arg
 305 310 315 320
 Gln Leu Gln Met Asp Val Ile Arg Lys Ile Glu Ile Asp Asn Gly Asp
 325 330 335
 Glu Leu Thr Ala Asp Phe Leu Tyr Glu Glu Val His Pro Lys Gln His
 340 345 350
 Ala His Lys Gln Ser Phe Ala Lys Pro Lys Gly Pro Ala Gly Lys Arg
 355 360 365
 Gly Ile Arg Arg Leu Ile Arg Gly Pro Ala Glu Thr Glu Ala Thr Thr
 370 375 380
 Asp
 385

<210> 4589

<211> 270

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (45)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4589

Ser Val Thr Leu Glu Met Glu Ser Lys Leu Ala Ala Glu Lys Lys Gln
 1 5 10 15
 Thr Glu Gln Leu Ser Leu Glu Leu Glu Val Ala Arg Leu Gln Leu Gln
 20 25 30
 Gly Leu Asp Leu Ser Ser Arg Ser Leu Leu Gly Ile Xaa Thr Glu Asp
 35 40 45
 Ala Ile Gln Gly Arg Asn Glu Ser Cys Asp Ile Ser Lys Glu His Thr
 50 55 60
 Ser Glu Thr Thr Glu Arg Thr Pro Lys His Asp Val His Gln Ile Cys
 65 70 75 80
 Asp Lys Asp Ala Gln Gln Asp Leu Asn Leu Asp Ile Glu Lys Ile Thr
 85 90 95

4159

Glu Thr Gly Ala Val Lys Pro Thr Gly Glu Cys Ser Gly Glu Gln Ser
 100 105 110

Pro Asp Thr Asn Tyr Glu Pro Pro Gly Glu Asp Lys Thr Gln Gly Ser
 115 120 125

Ser Glu Cys Ile Ser Glu Leu Ser Phe Ser Gly Pro Asn Ala Leu Val
 130 135 140

Pro Met Asp Phe Leu Gly Asn Gln Glu Asn Ile Gln Asn Leu Gln Leu
 145 150 155 160

Arg Val Lys Glu Thr Ser Asn Glu Asn Leu Arg Leu Leu His Val Ile
 165 170 175

Glu Asp Arg Asp Arg Lys Val Glu Ser Leu Leu Asn Glu Met Lys Glu
 180 185 190

Leu Asp Ser Lys Leu His Leu Gln Glu Val Gln Leu Met Thr Lys Ile
 195 200 205

Glu Ala Cys Ile Glu Leu Glu Lys Ile Val Gly Glu Leu Lys Lys Glu
 210 215 220

Asn Ser Asp Leu Ser Glu Lys Leu Glu Tyr Phe Ser Cys Asp His Gln
 225 230 235 240

Glu Leu Leu Gln Arg Val Glu Thr Ser Glu Gly Leu Asn Ser Asp Leu
 245 250 255

Glu Met His Ala Asp Lys Ser Ser Arg Glu Asp Ile Gly Arg
 260 265 270

<210> 4590

<211> 35

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4590

Ser Ser Val Pro Pro Lys Lys Lys Leu Ala Glu Lys Asp Xaa Lys Lys
 1 5 10 15

Leu Phe Gly Val Cys Ser Cys Ala Val His Phe Phe Arg Phe Asn Val
 20 25 30

4160

Leu Cys Arg
35

<210> 4591

<211> 173

<212> PRT

<213> Homo sapiens

<400> 4591

Ser Pro Ala Arg Pro Leu Ile Arg Ser Asp Lys Met Lys Glu Thr Ile
1 5 10 15

Met Asn Gln Glu Lys Leu Ala Lys Leu Gln Ala Gln Val Arg Ile Gly
20 25 30

Gly Lys Gly Thr Ala Arg Arg Lys Lys Lys Val Val His Arg Thr Ala
35 40 45

Thr Ala Asp Asp Lys Lys Leu Gln Phe Ser Leu Lys Lys Leu Gly Val
50 55 60

Asn Asn Ile Ser Gly Ile Glu Glu Val Asn Met Phe Thr Asn Gln Gly
65 70 75 80

Thr Val Ile His Phe Asn Asn Pro Lys Val Gln Ala Ser Leu Ala Ala
85 90 95

Asn Thr Phe Thr Ile Thr Gly His Ala Glu Thr Lys Gln Leu Thr Glu
100 105 110

Met Leu Pro Ser Ile Leu Asn Gln Leu Gly Ala Asp Ser Leu Thr Ser
115 120 125

Leu Arg Arg Leu Ala Glu Ala Leu Pro Lys Gln Ser Val Asp Gly Lys
130 135 140

Ala Pro Leu Ala Thr Gly Glu Asp Asp Asp Asp Glu Val Pro Asp Leu
145 150 155 160

Val Glu Asn Phe Asp Glu Ala Ser Lys Asn Glu Ala Asn
165 170

<210> 4592

<211> 66

<212> PRT

<213> Homo sapiens

4161

<400> 4592

Leu Cys Cys Pro Phe His Ile Lys Glu Leu Leu Thr Thr Lys Ala Ala
 1 5 10 15
 Pro Ala Phe Pro Ile Cys Leu Ser Ile Trp Leu Ala Gly Lys Glu Arg
 20 25 30
 Thr Cys Met Leu Val Lys Glu Glu Val Gly Trp Lys Lys Trp Gly Gly
 35 40 45
 Thr Thr Val Lys Ser Arg Val Lys Pro Ser Trp Pro Lys Val Ser Cys
 50 55 60
 Arg Leu
 65

<210> 4593

<211> 319

<212> PRT

<213> Homo sapiens

<400> 4593

Glu Thr Met Ala Lys Asn Pro Pro Glu Asn Cys Glu Asp Cys His Ile
 1 5 10 15
 Leu Asn Ala Glu Ala Phe Lys Ser Lys Lys Ile Cys Lys Ser Leu Lys
 20 25 30
 Ile Cys Gly Leu Val Phe Gly Ile Leu Ala Leu Thr Leu Ile Val Leu
 35 40 45
 Phe Trp Gly Ser Lys His Phe Trp Pro Glu Val Pro Lys Lys Ala Tyr
 50 55 60
 Asp Met Glu His Thr Phe Tyr Ser Asn Gly Glu Lys Lys Lys Ile Tyr
 65 70 75 80
 Met Glu Ile Asp Pro Val Thr Arg Thr Glu Ile Phe Arg Ser Gly Asn
 85 90 95
 Gly Thr Asp Glu Thr Leu Glu Val His Asp Phe Lys Asn Gly Tyr Thr
 100 105 110
 Gly Ile Tyr Phe Val Gly Leu Gln Lys Cys Phe Ile Lys Thr Gln Ile
 115 120 125
 Lys Val Ile Pro Glu Phe Ser Glu Pro Glu Glu Glu Ile Asp Glu Asn
 130 135 140

4162

Glu Glu Ile Thr Thr Thr Phe Phe Glu Gln Ser Val Ile Trp Val Pro
 145 150 155 160

Ala Glu Lys Pro Ile Glu Asn Arg Asp Phe Leu Lys Asn Ser Lys Ile
 165 170 175

Leu Glu Ile Cys Asp Asn Val Thr Met Tyr Trp Ile Asn Pro Thr Leu
 180 185 190

Ile Ser Val Ser Glu Leu Gln Asp Phe Glu Glu Glu Gly Glu Asp Leu
 195 200 205

His Phe Pro Ala Asn Glu Lys Lys Gly Ile Glu Gln Asn Glu Gln Trp
 210 215 220

Val Val Pro Gln Val Lys Val Glu Lys Thr Arg His Ala Arg Gln Ala
 225 230 235 240

Ser Glu Glu Glu Leu Pro Ile Asn Asp Tyr Thr Glu Asn Gly Ile Glu
 245 250 255

Phe Asp Pro Met Leu Asp Glu Arg Gly Tyr Cys Cys Ile Tyr Cys Arg
 260 265 270

Arg Gly Asn Arg Tyr Cys Arg Arg Val Cys Glu Pro Leu Leu Gly Tyr
 275 280 285

Tyr Pro Tyr Pro Tyr Cys Tyr Gln Gly Gly Arg Val Ile Cys Arg Val
 290 295 300

Ile Met Pro Cys Asn Trp Trp Val Ala Arg Met Leu Gly Arg Val
 305 310 315

<210> 4594

<211> 86

<212> PRT

<213> Homo sapiens

<400> 4594

Tyr Cys Phe Ala Phe Ser Ile Glu Thr Glu Asn Phe Ala Ser Gln Ser
 1 5 10 15

Leu Leu Phe Pro Trp Tyr Cys Lys Lys Lys Lys Lys Glu Lys Glu Lys
 20 25 30

Lys Lys Glu Asn Gln Pro Ile Ile Ala Cys Thr Glu Leu Lys Ile Val
 35 40 45

4163

Ile Asn Arg Ala Cys Trp Glu Lys Lys Glu Asn Asn Cys Cys Leu Phe
 50 55 60

Phe Leu Tyr Lys Arg Glu Phe Met Thr Lys Phe Ser Cys Glu Glu Cys
 65 70 75 80

Asp Thr Cys Leu Tyr Phe
 85

<210> 4595
 <211> 147
 <212> PRT
 <213> Homo sapiens

<400> 4595
 Phe Pro Leu Val Leu Val Ser His Gln Arg Thr Val Met Tyr Ala Ser
 1 5 10 15

Phe Val Thr Glu Lys Phe Leu Cys Phe Gln Ser Thr Met Arg Cys Met
 20 25 30

Ile Leu Phe Ser Ser His Phe Pro Gln Ala Pro Val Asn Gln Gly Lys
 35 40 45

Cys Ala Thr Asp Arg Leu Gly Glu Gly Leu Val Val Ala Gln Leu Glu
 50 55 60

Ile Val Ser Lys Ser Lys Pro Pro Ala His Pro Glu Glu Ser Leu Leu
 65 70 75 80

Trp Asn Val Lys Cys Asn His Phe Phe Arg Tyr Lys Thr Phe Pro Asn
 85 90 95

Asn Val Ile Gly Phe Leu Tyr Gly Lys Ile Glu Arg Ser Cys His Pro
 100 105 110

Pro Ala Tyr Ala Phe Ile Ser Phe Val Asp Leu Ser Asp His Leu Leu
 115 120 125

Phe Ala Gln Ser Leu Leu Asn Ser Lys Thr Val Pro Met Asn Gly Thr
 130 135 140

Pro Val Met
 145

<210> 4596
 <211> 59

4164

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4596

Thr	Pro	Xaa	Gln	Phe	Gly	Gly	Tyr	Ala	Lys	Glu	Ala	Asp	Tyr	Val	Ala
1				5					10					15	

Gln	Ala	Thr	Arg	Leu	Arg	Ala	Ala	Leu	Glu	Gly	Thr	Ala	Thr	Tyr	Arg
			20					25					30		

Gly	Asp	Ile	Tyr	Phe	Cys	Thr	Gly	Tyr	Asp	Pro	Pro	Met	Lys	Pro	Tyr
		35					40					45			

Gly	Arg	Arg	Asn	Glu	Ile	Trp	Leu	Leu	Lys	Thr
	50					55				

<210> 4597

<211> 358

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (352)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4597

Phe	Ala	Val	Ile	Arg	Phe	Glu	Ser	Ile	Ile	His	Glu	Phe	Asp	Pro	Trp
1				5					10					15	

Phe	Asn	Tyr	Arg	Ser	Thr	His	His	Leu	Ala	Ser	His	Gly	Phe	Tyr	Glu
			20					25					30		

Phe	Leu	Asn	Trp	Phe	Asp	Glu	Arg	Ala	Trp	Tyr	Pro	Leu	Gly	Arg	Ile
		35					40					45			

Val	Gly	Gly	Thr	Val	Tyr	Pro	Gly	Leu	Met	Ile	Thr	Ala	Gly	Leu	Ile
	50						55				60				

His	Trp	Ile	Leu	Asn	Thr	Leu	Asn	Ile	Thr	Val	His	Ile	Arg	Asp	Val
	65				70					75					80

Cys	Val	Phe	Leu	Ala	Pro	Thr	Phe	Ser	Gly	Leu	Thr	Ser	Ile	Ser	Thr
				85					90					95	

4165

Phe Leu Leu Thr Arg Glu Leu Trp Asn Gln Gly Ala Gly Leu Leu Ala
 100 105 110
 Ala Cys Phe Ile Ala Ile Val Pro Gly Tyr Ile Ser Arg Ser Val Ala
 115 120 125
 Gly Ser Phe Asp Asn Glu Gly Ile Ala Ile Phe Ala Leu Gln Phe Thr
 130 135 140
 Tyr Tyr Leu Trp Val Lys Ser Val Lys Thr Gly Ser Val Phe Trp Thr
 145 150 155 160
 Met Cys Cys Cys Leu Ser Tyr Phe Tyr Met Val Ser Ala Trp Gly Gly
 165 170 175
 Tyr Val Phe Ile Ile Asn Leu Ile Pro Leu His Val Phe Val Leu Leu
 180 185 190
 Leu Met Gln Arg Tyr Ser Lys Arg Val Tyr Ile Ala Tyr Ser Thr Phe
 195 200 205
 Tyr Ile Val Gly Leu Ile Leu Ser Met Gln Ile Pro Phe Val Gly Phe
 210 215 220
 Gln Pro Ile Arg Thr Ser Glu His Met Ala Ala Ala Gly Val Phe Ala
 225 230 235 240
 Leu Leu Gln Ala Tyr Ala Phe Leu Gln Tyr Leu Arg Asp Arg Leu Thr
 245 250 255
 Lys Gln Glu Phe Gln Thr Leu Phe Phe Leu Gly Val Ser Leu Ala Ala
 260 265 270
 Gly Ala Val Phe Leu Ser Val Ile Tyr Leu Thr Tyr Thr Gly Tyr Ile
 275 280 285
 Ala Pro Trp Ser Gly Arg Phe Tyr Ser Leu Trp Asp Thr Gly Tyr Ala
 290 295 300
 Lys Ile His Ile Pro Ile Ile Ala Ser Val Ser Glu His Gln Pro Thr
 305 310 315 320
 Thr Trp Val Ser Phe Phe Phe Asp Leu His Ile Leu Val Cys Thr Phe
 325 330 335
 Pro Ala Gly Leu Trp Phe Cys Ile Lys Asn Ile Asn Asp Glu Arg Xaa
 340 345 350
 Phe Gly Lys Arg Gly Phe
 355

4166

<210> 4598

<211> 161

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (87)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4598

Ile	Ser	Glu	Xaa	Ser	Phe	Phe	Gln	Asn	Met	Leu	Asn	Leu	Tyr	Asn	Phe
1				5					10					15	

Ser	Ala	Lys	Val	Met	Ala	Asp	Gln	Leu	Arg	Lys	Pro	Pro	Ser	Arg	Asp
			20					25					30		

Gln	Trp	Ser	Met	Thr	Pro	Gln	Thr	Val	Asn	Ala	Tyr	Tyr	Leu	Pro	Thr
		35					40					45			

Lys	Asn	Glu	Ile	Val	Phe	Pro	Ala	Gly	Ile	Leu	Gln	Ala	Pro	Phe	Tyr
	50					55					60				

Ala	Arg	Asn	His	Pro	Lys	Ala	Leu	Asn	Phe	Gly	Gly	Ile	Gly	Val	Val
65					70					75				80	

Met	Gly	His	Glu	Leu	Thr	Xaa	Ala	Phe	Asp	Asp	Gln	Gly	Arg	Glu	Tyr
				85					90					95	

Asp	Lys	Glu	Gly	Asn	Leu	Arg	Pro	Trp	Trp	Gln	Asn	Glu	Ser	Leu	Ala
			100					105					110		

Ala	Phe	Arg	Asn	His	Thr	Ala	Cys	Met	Glu	Glu	Gln	Tyr	Asn	Gln	Tyr
			115				120					125			

Gln	Val	Asn	Gly	Glu	Arg	Leu	Asn	Gly	Arg	Gln	Thr	Leu	Gly	Glu	Asn
	130					135					140				

Ile	Ala	Asp	Asn	Gly	Gly	Leu	Lys	Leu	Pro	Thr	Met	Leu	Thr	Lys	His
145					150					155					160

Gly

4167

<210> 4599

<211> 59

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4599

Ala Gln Val Val Val Leu Val Met Ser Leu Thr Thr Leu Trp Thr Leu
1 5 10 15

Asp Lys Leu Leu Leu Cys Val Cys Xaa Leu Ile Cys Lys Met Lys Ile
20 25 30

Ile Ser Val Ser Tyr Arg Tyr Ser Leu Asn Arg Asp Asn Tyr Thr Tyr
35 40 45

Phe Lys Val Val Lys Tyr Thr Ile Thr Thr Arg
50 55

<210> 4600

<211> 44

<212> PRT

<213> Homo sapiens

<400> 4600

Asp Gln Pro Gly Gln His Ser Lys Thr Pro Ser Leu Gln Lys Asn Leu
1 5 10 15

Lys Ile Ser Gln Val Trp Trp His Ala Pro Val Val Pro Ala Thr Arg
20 25 30

Asp Ala Glu Val Arg Gly Ser Leu Glu Pro Gly Arg
35 40

<210> 4601

<211> 397

<212> PRT

<213> Homo sapiens

<220>

4168

<221> SITE
 <222> (271)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (392)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (395)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (396)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <400> 4601
 Ser His Gly Pro Ala Ala Gly Pro Arg Ser Ala Leu Gln His Asn Lys
 1 5 10 15
 Met Ala Asn Gln Val Asn Gly Asn Ala Val Gln Leu Lys Glu Glu Glu
 20 25 30
 Glu Pro Met Asp Thr Ser Ser Val Thr His Thr Glu His Tyr Lys Thr
 35 40 45
 Leu Ile Glu Ala Gly Leu Pro Gln Lys Val Ala Glu Arg Leu Asp Glu
 50 55 60
 Ile Phe Gln Thr Gly Leu Val Ala Tyr Val Asp Leu Asp Glu Arg Ala
 65 70 75 80
 Ile Asp Ala Leu Arg Glu Phe Asn Glu Glu Gly Ala Leu Ser Val Leu
 85 90 95
 Gln Gln Phe Lys Glu Ser Asp Leu Ser His Val Gln Asn Lys Ser Ala
 100 105 110
 Phe Leu Cys Gly Val Met Lys Thr Tyr Arg Gln Arg Glu Lys Gln Gly
 115 120 125
 Ser Lys Val Gln Glu Ser Thr Lys Gly Pro Asp Glu Ala Lys Ile Lys
 130 135 140
 Ala Leu Leu Glu Arg Thr Gly Tyr Thr Leu Asp Val Thr Thr Gly Gln
 145 150 155 160
 Arg Lys Tyr Gly Gly Pro Pro Pro Asp Ser Val Tyr Ser Gly Val Gln

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<210> 4602
<211> 355
<212> PRT
<213> Homo sapiens
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4170

<220>
 <221> SITE
 <222> (2)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (66)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (131)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (253)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 4602
 Lys Xaa His Leu Leu Tyr Arg Pro Leu Glu Gln Gln His Gly Val Ile
 1 5 10 15
 Pro Asp Arg Asp Ala Glu Phe Cys Leu Phe Asp Arg Val Val Asn Val
 20 25 30
 Arg Glu Asn Phe Ser Val Pro Val Gly Leu Arg Gly Thr Ile Ile Gly
 35 40 45
 Ile Lys Gly Ala Asn Arg Glu Ala Asp Val Leu Phe Glu Val Leu Phe
 50 55 60
 Asp Xaa Glu Phe Pro Gly Gly Leu Thr Ile Arg Cys Ser Pro Gly Arg
 65 70 75 80
 Gly Tyr Arg Leu Pro Thr Ser Ala Leu Val Asn Leu Ser His Gly Ser
 85 90 95
 Arg Ser Glu Thr Gly Asn Gln Lys Leu Thr Ala Ile Val Lys Pro Gln
 100 105 110
 Pro Ala Val His Gln His Ser Ser Ser Ser Val Ser Ser Gly His
 115 120 125
 Leu Gly Xaa Leu Asn His Ser Pro Gln Ser Leu Phe Val Pro Thr Gln
 130 135 140
 Val Pro Thr Lys Asp Asp Asp Glu Phe Cys Asn Ile Trp Gln Ser Leu
 145 150 155 160

Gln	Gly	Ser	Gly	Lys	Met	Gln	Tyr	Phe	Glu	Pro	Thr	Ile	Gln	Glu	Lys	
				165							170			175		
Gly	Ala	Val	Leu	Pro	Gln	Glu	Ile	Ser	Gln	Val	Asn	Gln	His	His	Lys	
				180							185			190		
Ser	Gly	Phe	Asn	Asp	Asn	Ser	Val	Lys	Tyr	Gln	Gln	Arg	Lys	His	Asp	
				195							200			205		
Pro	His	Arg	Lys	Phe	Lys	Glu	Glu	Cys	Lys	Ser	Pro	Lys	Ala	Glu	Cys	
				210							215			220		
Trp	Ser	Gln	Lys	Met	Ser	Asn	Lys	Gln	Pro	Asn	Ser	Gly	Ile	Glu	Asn	
225				230							235			240		
Phe	Leu	Ala	Ser	Leu	Asn	Ile	Ser	Lys	Glu	Asn	Glu	Xaa	Gln	Ser	Ser	
				245							250			255		
His	His	Gly	Glu	Pro	Pro	Ser	Glu	Glu	His	Leu	Ser	Pro	Gln	Ser	Phe	
				260							265			270		
Ala	Met	Lys	Gly	Thr	Arg	Met	Leu	Lys	Glu	Ile	Leu	Lys	Ile	Asp	Gly	
				275							280			285		
Ser	Asn	Thr	Val	Asp	His	Lys	Asn	Glu	Ile	Lys	Gln	Ile	Ala	Asn	Glu	
				290							295			300		
Ile	Pro	Val	Ser	Ser	Asn	Arg	Arg	Asp	Glu	Tyr	Gly	Leu	Pro	Ser	Gln	
305				310							315			320		
Pro	Lys	Gln	Asn	Lys	Lys	Leu	Ala	Ser	Tyr	Met	Asn	Lys	Pro	His	Ser	
				325							330			335		
Ala	Asn	Glu	Tyr	His	Asn	Val	Gln	Ser	Met	Asp	Asn	Met	Cys	Trp	Pro	
				340							345			350		
Ala	Pro	Ser														
355																

<223> Xaa equals any of the naturally occurring L-amino acids

4172

<400> 4603

His	Arg	Arg	Tyr	Ser	Val	Ala	Ser	Gln	Val	Pro	Ser	Gly	Cys	Thr	Leu
1				5				10						15	
Glu	Asp	His	Thr	Arg	Phe	Leu	Phe	Gly	Cys	Gln	Arg	Pro	Pro	His	Pro
			20					25					30		
Pro	Leu	Ser	Trp	Glu	Lys	Asp	Gly	Gly	Xaa	Val	Arg	Gln	Asp	Leu	Ala
		35					40					45			
Gln	Leu	Met	Asn	Ser	Ser	Gly	Ser	His	Lys	Asp	Leu	Ala	Gly	Lys	Tyr
	50					55					60				
Arg	Gln	Ile	Leu	Glu	Lys	Ala	Ile	Gln	Leu	Ser	Gly	Ala	Glu	Gln	Leu
65					70					75					80
Glu	Ala	Leu	Lys	Ala	Phe	Val	Glu	Ala	Met	Val	Asn	Glu	Asn	Val	Ser
				85					90					95	
Leu	Val	Ile	Ser	Arg	Gln	Leu	Leu	Thr	Asp	Phe	Cys	Thr	His	Leu	Pro
			100					105					110		
Asn	Leu	Pro	Asp	Ser	Thr	Ala	Lys	Glu	Ile	Tyr	His	Phe	Thr	Leu	Glu
		115					120					125			
Lys	Ile	Gln	Pro	Arg	Val	Ile	Ser	Phe	Glu	Glu	Gln	Val	Ala	Ser	Ile
	130					135					140				
Arg	Gln	His	Leu	Ala	Ser	Ile	Tyr	Glu	Lys	Glu	Glu	Asp	Trp	Arg	Asn
145					150					155					160
Ala	Ala	Gln	Val	Leu	Val	Gly	Ile	Pro	Leu	Glu	Thr	Gly	Gln	Lys	Gln
				165					170					175	
Tyr	Asn	Val	Asp	Tyr	Lys	Leu	Glu	Thr	Tyr	Leu	Lys	Ile	Ala	Arg	Leu
			180					185					190		
Tyr	Leu	Glu	Asp	Asp	Asp	Pro	Val	Gln	Ala	Glu	Ala	Tyr	Ile	Asn	Arg
		195					200					205			
Ala	Ser	Leu	Leu	Gln	Asn	Glu	Ser	Thr	Asn	Glu	Gln	Leu	Gln	Ile	His
	210					215					220				
Tyr	Lys	Val	Cys	Tyr	Ala	Arg	Val	Leu	Asp	Tyr	Arg	Arg	Lys	Phe	Ile
225					230					235					240
Glu	Ala	Ala	Gln	Arg	Tyr	Asn	Glu	Leu	Ser	Tyr	Lys	Thr	Ile	Val	His
				245					250					255	
Glu	Ser	Glu	Arg	Leu	Glu	Ala	Leu	Lys	His	Ala	Leu	His	Cys	Thr	Ile
			260					265					270		

4173

Leu Ala Ser Ala Gly Gln Gln Arg Ser Arg Met Leu Ala Thr Leu Phe
 275 280 285

Lys Asp Glu Arg Cys Gln Gln Leu Ala Ala Tyr Gly Ile Leu Glu Lys
 290 295 300

Met Tyr Leu Asp Arg Ile Ile Arg Gly Asn Gln Leu Gln Glu Phe Ala
 305 310 315 320

Ala Met Leu Met Pro His Gln Lys Ala Thr Thr Ala Asp Gly Ser Ser
 325 330 335

Ile Leu Asp Arg Ala Val Ile Glu His Asn Leu Leu Ser Ala Ser Lys
 340 345 350

Leu Tyr Asn Asn Ile Thr Phe Glu Glu Leu Gly Ala Leu Leu Glu Ile
 355 360 365

Pro Ala Ala Lys Ala Glu Lys Ile Ala Ser Gln Met Ile Thr Glu Asp
 370 375 380

Val
 385

<210> 4604

<211> 120

<212> PRT

<213> Homo sapiens

<400> 4604

Ala His Gly Gln Ile Glu Gly Lys Ala Leu Thr His Asp His Thr Ala
 1 5 10 15

Glu Lys Trp Gln Arg Gln Asp Leu Asn Leu Glu Pro Leu Ala Pro His
 20 25 30

Thr Ser Asn Leu Asn His Ser Pro Tyr Asn Thr Thr Tyr Val Val Lys
 35 40 45

Met Cys Gly Gly His Ala Ile Asn Val Gly Pro Phe Thr Val Ala Gly
 50 55 60

Arg Gly Arg Asn Leu Gln Phe Leu Arg Val Leu Leu Leu Arg Cys Pro
 65 70 75 80

Pro Val Leu Gly His Ser Cys Ser Leu Pro Cys Pro Ala Trp Ser His
 85 90 95

4174

Pro Pro Ser Ala Asn Arg Ser Leu Gly Arg Val Leu Trp Ala Leu Ile
 100 105 110

Arg Pro Trp Gln Gly Arg Ser Ser
 115 120

<210> 4605

<211> 390

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4605

Thr Ser Val Ala Ala Ala Ala Arg Gly Arg Ala Gly Cys Pro Leu
 1 5 10 15

Thr Ala Ala Ser Ala Ala Arg Phe Lys Met Ala Ala Cys Ser His Ser
 20 25 30

Phe Ser Ala Glu Arg Leu Leu Thr Phe Ile Val Phe Ser Ala Arg Phe
 35 40 45

Asp Arg Leu Xaa Pro Ala Ala Leu Ser Gly Ile Phe Tyr Gln Ala Glu
 50 55 60

Met His Arg Thr Thr Arg Ile Lys Ile Thr Glu Leu Asn Pro His Leu
 65 70 75 80

Met Cys Val Leu Cys Gly Gly Tyr Phe Ile Asp Ala Thr Thr Ile Ile
 85 90 95

Glu Cys Leu His Ser Phe Cys Lys Thr Cys Ile Val Arg Tyr Leu Glu
 100 105 110

Thr Ser Lys Tyr Cys Pro Ile Cys Asp Val Gln Val His Lys Thr Arg
 115 120 125

Pro Leu Leu Asn Ile Arg Ser Asp Lys Thr Leu Gln Asp Ile Val Tyr
 130 135 140

Lys Leu Val Pro Gly Leu Phe Lys Asn Glu Met Lys Arg Arg Arg Asp
 145 150 155 160

Phe Tyr Ala Ala His Pro Ser Ala Asp Ala Ala Asn Gly Ser Asn Glu
 165 170 175

4175

Asp Arg Gly Glu Val Ala Asp Glu Asp Lys Arg Ile Ile Thr Asp Asp
 180 185 190
 Glu Ile Ile Ser Leu Ser Ile Glu Phe Phe Asp Gln Asn Arg Leu Asp
 195 200 205
 Arg Lys Val Asn Lys Asp Lys Glu Lys Ser Lys Glu Glu Val Asn Asp
 210 215 220
 Lys Arg Tyr Leu Arg Cys Pro Ala Ala Met Thr Val Met His Leu Arg
 225 230 235 240
 Lys Phe Leu Arg Ser Lys Met Asp Ile Pro Asn Thr Phe Gln Ile Asp
 245 250 255
 Val Met Tyr Glu Glu Glu Pro Leu Lys Asp Tyr Tyr Thr Leu Met Asp
 260 265 270
 Ile Ala Tyr Ile Tyr Thr Trp Arg Arg Asn Gly Pro Leu Pro Leu Lys
 275 280 285
 Tyr Arg Val Arg Pro Thr Cys Lys Arg Met Lys Ile Ser His Gln Arg
 290 295 300
 Asp Gly Leu Thr Asn Ala Gly Glu Leu Glu Ser Asp Ser Gly Ser Asp
 305 310 315 320
 Lys Ala Asn Ser Pro Ala Gly Gly Ile Pro Ser Thr Ser Ser Cys Leu
 325 330 335
 Pro Ser Pro Ser Thr Pro Val Gln Ser Pro His Pro Gln Phe Pro His
 340 345 350
 Ile Ser Ser Thr Met Asn Gly Thr Ser Asn Ser Pro Ser Gly Asn His
 355 360 365
 Gln Ser Ser Phe Ala Asn Arg Pro Arg Lys Ser Ser Val Asn Gly Ser
 370 375 380
 Ser Ala Thr Ser Ser Gly
 385 390

<210> 4606

<211> 197

<212> PRT

<213> Homo sapiens

<400> 4606

4176

Leu Thr Gly Leu Ser Ile Ser Ser Thr Pro Pro Ala Val Ser Ser Val
 1 5 10 15
 Leu Ser Thr Gly Val Pro Thr Val Pro Leu Leu Pro Pro Gln Val Asn
 20 25 30
 Gln Ser Leu Thr Ser Val Pro Pro Met Asn Pro Ala Thr Thr Leu Pro
 35 40 45
 Gly Leu Met Pro Leu Pro Ala Gly Leu Pro Asn Leu Pro Asn Leu Asn
 50 55 60
 Leu Asn Leu Pro Ala Pro His Ile Met Pro Gly Val Gly Leu Pro Glu
 65 70 75 80
 Leu Val Asn Pro Gly Leu Pro Pro Leu Pro Ser Met Pro Pro Arg Asn
 85 90 95
 Leu Pro Gly Ile Ala Pro Leu Pro Leu Pro Ser Glu Phe Leu Pro Ser
 100 105 110
 Phe Pro Leu Val Pro Glu Ser Ser Ser Ala Ala Ser Ser Gly Glu Leu
 115 120 125
 Leu Ser Ser Leu Pro Pro Thr Ser Asn Ala Pro Ser Asp Pro Ala Thr
 130 135 140
 Thr Thr Ala Lys Ala Asp Ala Ala Ser Ser Leu Thr Val Asp Val Thr
 145 150 155 160
 Pro Pro Thr Ala Lys Ala Pro Thr Thr Val Glu Asp Arg Val Gly Asp
 165 170 175
 Ser Thr Pro Val Ser Glu Lys Pro Val Ser Ala Ala Val Asp Ala Asn
 180 185 190
 Ala Ser Glu Ser Pro
 195

<210> 4607

<211> 96

<212> PRT

<213> Homo sapiens

<400> 4607

Leu Met Phe Tyr Val Leu Phe Trp Thr Leu Ser Ser Cys Lys Asn Phe
 1 5 10 15

Tyr Lys Asn Cys Phe Leu His Pro Cys Gly Ala Tyr Ser Ser Glu Pro

4177

	20		25		30	
Ser	Pro	Gln	Ser	Gln	Cys	Leu
	35				40	
Cys	Phe	Leu	Phe	Tyr	Phe	Cys
					45	
Ser	Ile					
Arg	Phe	Leu	Leu	Leu	Leu	Cys
	50				55	
Leu	Lys	Ser	Ser	Leu	Gly	Ser
				60		
Tyr	Gln					
Gly	Phe	Ser	Phe	Cys	Val	Ala
	65				70	
Phe	Ala	Ala	Trp	Ile	Lys	His
			75			
Trp	Leu					80
Thr	Val	Leu	Met	Cys	Glu	Glu
			85			
Lys	Lys	Phe	Ser	Lys	Ala	Gly
		90				
Glu	Leu					95

<210> 4608

<211> 298

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (89)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4608

Pro	Cys	Ala	Trp	Arg	Ala	Ala	Arg	Gly	Gly	Pro	Cys	Ala	Ala	Pro	Leu
1				5					10					15	

Gly	Leu	Arg	Glu	Arg	Gly	Arg	Val	Ser	Xaa	Arg	Leu	Leu	Gly	Pro	Ala
		20						25					30		

Ala	Ala	Arg	Ala	Leu	Leu	Leu	Gly	Leu	Pro	Gly	Arg	Thr	Leu	Glu	Ala
		35					40					45			

Ala	Ser	Gly	Arg	Ser	Trp	Leu	Ala	Ala	Ala	Arg	Asp	Arg	Pro	Ala	Glu
	50					55					60				

4178

Pro Leu Phe Gly Arg Gly Glu Gly Gly Ser Gln Ala Ser Gly Xaa Ala
 65 70 75 80
 Gly Ala Ala Ala Glu Ala Pro Gly Xaa Gln Trp Gly Pro Ala Ser Thr
 85 90 95
 Pro Ser Leu Tyr Glu Asn Pro Trp Thr Ile Pro Asn Met Leu Ser Met
 100 105 110
 Thr Arg Ile Gly Leu Ala Pro Val Leu Gly Tyr Leu Ile Ile Glu Glu
 115 120 125
 Asp Phe Asn Ile Ala Leu Gly Val Phe Ala Leu Ala Gly Leu Thr Asp
 130 135 140
 Leu Leu Asp Gly Phe Ile Ala Arg Asn Trp Ala Asn Gln Arg Ser Ala
 145 150 155 160
 Leu Gly Ser Ala Leu Asp Pro Leu Ala Asp Lys Ile Leu Ile Ser Ile
 165 170 175
 Leu Tyr Val Ser Leu Thr Tyr Ala Asp Leu Ile Pro Val Pro Leu Thr
 180 185 190
 Tyr Met Ile Ile Ser Arg Asp Val Met Leu Ile Ala Ala Val Phe Tyr
 195 200 205
 Val Arg Tyr Arg Thr Leu Pro Thr Pro Arg Thr Leu Ala Lys Tyr Phe
 210 215 220
 Asn Pro Cys Tyr Ala Thr Ala Arg Leu Lys Pro Thr Phe Ile Ser Lys
 225 230 235 240
 Val Asn Thr Ala Val Gln Leu Ile Leu Val Ala Ala Ser Leu Ala Ala
 245 250 255
 Pro Val Phe Asn Tyr Ala Asp Ser Ile Tyr Leu Gln Ile Leu Trp Cys
 260 265 270
 Phe Thr Ala Phe Thr Thr Ala Ala Ser Ala Tyr Ser Tyr Tyr His Tyr
 275 280 285
 Gly Arg Lys Thr Val Gln Val Ile Lys Asp
 290 295

<210> 4609

<211> 279

<212> PRT

4179

<213> Homo sapiens

<400> 4609

Glu Gly Pro Ala Glu Gly Asn Met Ala Ala Lys Val Phe Glu Ser Ile
 1 5 10 15

Gly Lys Phe Gly Leu Ala Leu Ala Val Ala Gly Gly Val Val Asn Ser
 20 25 30

Ala Leu Tyr Asn Val Asp Ala Gly His Arg Ala Val Ile Phe Asp Arg
 35 40 45

Phe Arg Gly Val Gln Asp Ile Val Val Gly Glu Gly Thr His Phe Leu
 50 55 60

Ile Pro Trp Val Gln Lys Pro Ile Ile Phe Asp Cys Arg Ser Arg Pro
 65 70 75 80

Arg Asn Val Pro Val Ile Thr Gly Ser Lys Asp Leu Gln Asn Val Asn
 85 90 95

Ile Thr Leu Arg Ile Leu Phe Arg Pro Val Ala Ser Gln Leu Pro Arg
 100 105 110

Ile Phe Thr Ser Ile Gly Glu Asp Tyr Asp Glu Arg Val Leu Pro Ser
 115 120 125

Ile Thr Thr Glu Ile Leu Lys Ser Val Val Ala Arg Phe Asp Ala Gly
 130 135 140

Glu Leu Ile Thr Gln Arg Glu Leu Val Ser Arg Gln Val Ser Asp Asp
 145 150 155 160

Leu Thr Glu Arg Ala Ala Thr Phe Gly Leu Ile Leu Asp Asp Val Ser
 165 170 175

Leu Thr His Leu Thr Phe Gly Lys Glu Phe Thr Glu Ala Val Glu Ala
 180 185 190

Lys Gln Val Ala Gln Gln Glu Ala Glu Arg Ala Arg Phe Val Val Glu
 195 200 205

Lys Ala Glu Gln Gln Lys Lys Ala Ala Ile Ile Ser Ala Glu Gly Asp
 210 215 220

Ser Lys Ala Ala Glu Leu Ile Ala Asn Ser Leu Ala Thr Ala Gly Asp
 225 230 235 240

Gly Leu Ile Glu Leu Arg Lys Leu Glu Ala Ala Glu Asp Ile Ala Tyr
 245 250 255

4180

Gln Leu Ser Arg Ser Arg Asn Ile Thr Tyr Leu Pro Ala Gly Gln Ser
 260 265 270

Val Leu Leu Gln Leu Pro Gln
 275

<210> 4610

<211> 406

<212> PRT

<213> Homo sapiens

<400> 4610

Val Thr Ala Cys Ala Ala Pro Ala Ala Trp Leu Pro Ile Leu Val Ala
 1 5 10 15

Asp Ile Trp Ser Ser Tyr Asn Met Ala Asp Ile Asp Asn Lys Glu Gln
 20 25 30

Ser Glu Leu Asp Gln Asp Leu Asp Asp Val Glu Glu Val Glu Glu Glu
 35 40 45

Glu Thr Gly Glu Glu Thr Lys Leu Lys Ala Arg Gln Leu Thr Val Gln
 50 55 60

Met Met Gln Asn Pro Gln Ile Leu Ala Ala Leu Gln Glu Arg Leu Asp
 65 70 75 80

Gly Leu Val Glu Thr Pro Thr Gly Tyr Ile Glu Ser Leu Pro Arg Val
 85 90 95

Val Lys Arg Arg Val Asn Ala Leu Lys Asn Leu Gln Val Lys Cys Ala
 100 105 110

Gln Ile Glu Ala Lys Phe Tyr Glu Glu Val His Asp Leu Glu Arg Lys
 115 120 125

Tyr Ala Val Leu Tyr Gln Pro Leu Phe Asp Lys Arg Phe Glu Ile Ile
 130 135 140

Asn Ala Ile Tyr Glu Pro Thr Glu Glu Glu Cys Glu Trp Lys Pro Asp
 145 150 155 160

Glu Glu Asp Glu Ile Ser Glu Glu Leu Lys Glu Lys Ala Lys Ile Glu
 165 170 175

Asp Glu Lys Lys Asp Glu Glu Lys Glu Asp Pro Lys Gly Ile Pro Glu
 180 185 190

Phe Trp Leu Thr Val Phe Lys Asn Val Asp Leu Leu Ser Asp Met Val

4181

195	200	205
Gln Glu His Asp Glu Pro Ile Leu Lys His Leu Lys Asp Ile Lys Val		
210	215	220
Lys Phe Ser Asp Ala Gly Gln Pro Met Ser Phe Val Leu Glu Phe His		
225	230	235
Phe Glu Pro Asn Glu Tyr Phe Thr Asn Glu Val Leu Thr Lys Thr Tyr		
	245	250
Arg Met Arg Ser Glu Pro Asp Asp Ser Asp Pro Phe Ser Phe Asp Gly		
	260	265
Pro Glu Ile Met Gly Cys Thr Gly Cys Gln Ile Asp Trp Lys Lys Gly		
	275	280
Lys Asn Val Thr Leu Lys Thr Ile Lys Lys Lys Gln Lys His Lys Gly		
	290	295
Arg Gly Thr Val Arg Thr Val Thr Lys Thr Val Ser Asn Asp Ser Phe		
305	310	315
Phe Asn Phe Phe Ala Pro Pro Glu Val Pro Glu Ser Gly Asp Leu Asp		
	325	330
Asp Asp Ala Glu Ala Ile Leu Ala Ala Asp Phe Glu Ile Gly His Phe		
	340	345
Leu Arg Glu Arg Ile Ile Pro Arg Ser Val Leu Tyr Phe Thr Gly Glu		
	355	360
Ala Ile Glu Asp Asp Asp Asp Asp Tyr Asp Glu Glu Gly Glu Glu Ala		
	370	375
Asp Glu Gly Tyr Gln Leu Phe Glu Glu Val Lys Ser Cys Ser Lys Leu		
385	390	395
Phe Gln Arg Trp Leu Gln		
	405	

<210> 4611

<211> 126

<212> PRT

<213> Homo sapiens

<400> 4611

Gly Val Val Lys Ser Leu Leu Phe Thr Arg Cys Asn Val Leu Val Pro
1 5 10 15

4182

Tyr Lys Gln Gly Trp Gly Gly Glu Gly Arg Ala Lys Thr Asn Ile Glu
 20 25 30
 Ile Leu Lys Gln Gln Gln Ser Glu Trp Ile Leu Phe Phe Val Ile Val
 35 40 45
 Gly Gly Leu Lys Asn Ser Pro His Val Ile Ile Val Asn Thr Leu Leu
 50 55 60
 Cys Gly His Cys Asn Ile Trp Gly Val Gly Gln Gly Gly Lys Val Thr
 65 70 75 80
 Ile Val His Met Ser Leu Ala Ser Val Gln Ser Ser Val Gln Asn Val
 85 90 95
 Met Leu Phe Cys Lys Lys Arg Phe Met Ile Phe Lys Ile Asn Leu Val
 100 105 110
 Asn Leu Phe Leu Val Val Ile Phe Phe Leu Arg Gln Ser Phe
 115 120 125

<210> 4612

<211> 94

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4612

Gln Glu Leu Arg Ser Pro Ser Arg Ser Pro Ser Pro Pro Pro Lys Ser
 1 5 10 15
 Pro Pro Trp Thr Thr Gly Gly Ser Leu Cys Glu Gln Leu Ala Phe Arg
 20 25 30
 Lys Pro Leu Ser Val Phe Lys Gln Lys Val Glu Gly Ala Thr Lys Gln
 35 40 45
 Ala Ala Val Arg Ala Ser Xaa Cys Arg Pro Leu Pro Cys Ser Ser Ser
 50 55 60
 Ser Phe Ala Ser Ala Ser Ser Val Met Phe Cys Leu Glu Phe Tyr Leu
 65 70 75 80
 Asp Phe Phe Ser Gly Tyr Phe Ser Val Phe Gln Pro Leu Leu

4183

85

90

<210> 4613

<211> 69

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (59)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4613

Lys	Lys	Ser	Leu	Arg	Cys	Glu	Tyr	Arg	Ile	Asp	Ile	Glu	Arg	Leu	Tyr
1				5					10					15	

Met	Ser	Lys	Thr	His	Leu	Ser	Ser	Ser	His	Arg	Pro	Leu	Gln	Ser	Gly
			20					25					30		

His	Val	Gly	Gln	Xaa	Gly	Thr	Gly	Ala	Gly	Asp	Ala	Pro	Pro	Gly	Gln
		35					40					45			

Asn	Ala	Pro	Phe	Val	Ala	Leu	Pro	Asp	Thr	Xaa	Tyr	Leu	Leu	Xaa	Lys
		50				55					60				

Arg	Glu	Thr	Gly	Ser
65				

<210> 4614

<211> 165

<212> PRT

<213> Homo sapiens

<400> 4614

Asp	Pro	Arg	Thr	Met	Asn	Leu	Ala	Ile	Ser	Ile	Ala	Leu	Leu	Leu	Thr
1				5					10					15	

4184

Val Leu Gln Val Ser Arg Gly Gln Lys Val Thr Ser Leu Thr Ala Cys
 20 25 30

Leu Val Asp Gln Ser Leu Arg Leu Asp Cys Arg His Glu Asn Thr Ser
 35 40 45

Ser Ser Pro Ile Gln Tyr Glu Phe Ser Leu Thr Arg Glu Thr Lys Lys
 50 55 60

His Val Leu Phe Gly Thr Val Gly Val Pro Glu His Thr Tyr Arg Ser
 65 70 75 80

Arg Thr Asn Phe Thr Ser Lys Tyr Asn Met Lys Val Leu Tyr Leu Ser
 85 90 95

Ala Phe Thr Ser Lys Asp Glu Gly Thr Tyr Thr Cys Ala Leu His His
 100 105 110

Ser Gly His Ser Pro Pro Ile Ser Ser Gln Asn Val Thr Val Leu Arg
 115 120 125

Asp Lys Leu Val Lys Cys Glu Gly Ile Ser Leu Leu Ala Gln Asn Thr
 130 135 140

Ser Trp Leu Leu Leu Leu Leu Leu Ser Leu Ser Leu Leu Gln Ala Thr
 145 150 155 160

Asp Phe Met Ser Leu
 165

<210> 4615

<211> 85

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4615

Ser Leu Cys Phe Ile Asp Gly Lys Tyr His Lys Gln Ile Lys Ile Glu
 1 5 10 15

Glu Asn Ala Thr Gly Phe Ser Tyr Glu Ser Leu Phe Arg Glu Tyr Leu
 20 25 30

Asn Glu Thr Val Thr Glu Val Trp Ile Glu Asp Pro Tyr Ile Arg His
 35 40 45

4185

Thr His Gln Gly Ile Asp Gln Val Gln Gln Ser Arg Gly Leu Gln Glu
 50 55 60

Ile Glu Glu Ser Leu Arg Ser His Gly Ser Ala Xaa Gly Arg Ser Ile
 65 70 75 80

Leu Phe Phe Asn Thr
 85

<210> 4616

<211> 366

<212> PRT

<213> Homo sapiens

<400> 4616

Pro Gly Ser Thr His Ala Ser Gly Lys Ile Gln Asn Lys Trp Leu Arg
 1 5 10 15

Pro Ser Pro Arg Ser His Arg Thr Pro Glu Ser Gly Arg Val Leu Ser
 20 25 30

Leu Phe Arg Leu Pro Pro Pro Gly Met Ala Leu Ser Gly Ser Thr Pro
 35 40 45

Ala Pro Cys Trp Glu Glu Asp Glu Cys Leu Asp Tyr Tyr Gly Met Leu
 50 55 60

Ser Leu His Arg Met Phe Glu Val Val Gly Gly Gln Leu Thr Glu Cys
 65 70 75 80

Glu Leu Glu Leu Leu Ala Phe Leu Leu Asp Glu Ala Pro Gly Ala Ala
 85 90 95

Gly Gly Leu Ala Arg Ala Arg Ser Gly Leu Glu Leu Leu Leu Glu Leu
 100 105 110

Glu Arg Arg Gly Gln Cys Asp Glu Ser Asn Leu Arg Leu Leu Gly Gln
 115 120 125

Leu Leu Arg Val Leu Ala Arg His Asp Leu Leu Pro His Leu Ala Arg
 130 135 140

Lys Arg Arg Arg Pro Val Ser Pro Glu Arg Tyr Ser Tyr Gly Thr Ser
 145 150 155 160

Ser Ser Ser Lys Arg Thr Glu Gly Ser Cys Arg Arg Arg Arg Gln Ser
 165 170 175

4186

Ser Ser Ser Ala Asn Ser Gln Gln Gly Gln Trp Glu Thr Gly Ser Pro
 180 185 190
 Pro Thr Lys Arg Gln Arg Arg Ser Arg Gly Arg Pro Ser Gly Gly Ala
 195 200 205
 Arg Arg Arg Arg Arg Gly Ala Pro Ala Ala Pro Gln Gln Gln Ser Glu
 210 215 220
 Pro Ala Arg Pro Ser Ser Glu Gly Lys Val Thr Cys Asp Ile Arg Leu
 225 230 235 240
 Arg Val Arg Ala Glu Tyr Cys Glu His Gly Pro Ala Leu Glu Gln Gly
 245 250 255
 Val Ala Ser Arg Arg Pro Gln Ala Leu Ala Arg Gln Leu Asp Val Phe
 260 265 270
 Gly Gln Ala Thr Ala Val Leu Arg Ser Arg Asp Leu Gly Ser Val Val
 275 280 285
 Cys Asp Ile Lys Phe Ser Glu Leu Ser Tyr Leu Asp Ala Phe Trp Gly
 290 295 300
 Asp Tyr Leu Ser Gly Ala Leu Leu Gln Ala Leu Arg Gly Val Phe Leu
 305 310 315 320
 Thr Glu Ala Leu Arg Glu Ala Val Gly Arg Glu Ala Val Arg Leu Leu
 325 330 335
 Val Ser Val Asp Glu Ala Asp Tyr Glu Ala Gly Arg Arg Arg Leu Leu
 340 345 350
 Leu Met Glu Glu Glu Gly Gly Arg Arg Pro Thr Glu Ala Ser
 355 360 365

<210> 4617

<211> 482

<212> PRT

<213> Homo sapiens

<400> 4617

Arg Glu Gln Lys Leu Glu Leu His Arg Gly Gly Gly Arg Ser Arg Thr
 1 5 10 15

Ser Gly Ser Pro Gly Leu Gln Glu Phe Gly Thr Ser Met Val Leu Gln
 20 25 30

Thr Thr Lys Gly Leu Arg Leu Leu Phe Asp Gly Asp Ala His Leu Leu

4187

35	40	45
Met Ser Ile Pro Ser Pro Phe Arg Gly Arg Leu Cys Gly Leu Cys Gly		
50	55	60
Asn Phe Asn Gly Asn Trp Ser Asp Asp Phe Val Leu Pro Asn Gly Ser		
65	70	75
80		
Ala Ala Ser Ser Val Glu Thr Phe Gly Ala Ala Trp Arg Val Pro Gly		
85	90	95
Ser Ser Lys Gly Cys Gly Glu Gly Cys Gly Pro Gln Gly Cys Pro Val		
100	105	110
Cys Leu Ala Glu Glu Thr Ala Pro Tyr Glu Ser Asn Glu Ala Cys Gly		
115	120	125
Gln Leu Arg Asn Pro Gln Gly Pro Phe Ala Thr Cys Gln Ala Val Leu		
130	135	140
Ser Pro Ser Glu Tyr Phe Arg Gln Cys Val Tyr Asp Leu Cys Ala Gln		
145	150	155
160		
Lys Gly Asp Lys Ala Phe Leu Cys Arg Ser Leu Ala Ala Tyr Thr Ala		
165	170	175
Ala Cys Gln Ala Ala Gly Val Ala Val Lys Pro Trp Arg Thr Asp Ser		
180	185	190
Phe Cys Pro Leu His Cys Pro Ala His Ser His Tyr Ser Ile Cys Thr		
195	200	205
Arg Thr Cys Gln Gly Ser Cys Ala Ala Leu Ser Gly Leu Thr Gly Cys		
210	215	220
Thr Thr Arg Cys Phe Glu Gly Cys Glu Cys Asp Asp Arg Phe Leu Leu		
225	230	235
240		
Ser Gln Gly Val Cys Ile Pro Val Gln Asp Cys Gly Cys Thr His Asn		
245	250	255
Gly Arg Tyr Leu Pro Val Asn Ser Ser Leu Leu Thr Ser Asp Cys Ser		
260	265	270
Glu Arg Cys Ser Cys Ser Ser Ser Ser Gly Leu Thr Cys Gln Ala Ala		
275	280	285
Gly Cys Pro Pro Gly Arg Val Cys Glu Val Lys Ala Glu Ala Arg Asn		
290	295	300
Cys Trp Ala Thr Arg Gly Leu Cys Val Leu Ser Val Gly Ala Asn Leu		

4188

305 310 315 320
 Thr Thr Phe Asp Gly Ala Arg Gly Ala Thr Thr Ser Pro Gly Val Tyr
 325 330 335
 Glu Leu Ser Ser Arg Cys Pro Gly Leu Gln Asn Thr Ile Pro Trp Tyr
 340 345 350
 Arg Val Val Ala Glu Val Gln Ile Cys His Gly Lys Thr Glu Ala Val
 355 360 365
 Gly Gln Val His Ile Phe Phe Gln Asp Gly Met Val Thr Leu Thr Pro
 370 375 380
 Asn Lys Gly Val Trp Val Asn Gly Leu Arg Val Asp Leu Pro Ala Glu
 385 390 395 400
 Lys Leu Ala Ser Val Ser Val Ser Arg Thr Pro Asp Gly Ser Leu Leu
 405 410 415
 Val Arg Gln Lys Ala Gly Val Gln Val Trp Leu Gly Ala Asn Gly Lys
 420 425 430
 Val Ala Val Ile Val Ser Asn Asp His Ala Gly Lys Leu Cys Gly Ala
 435 440 445
 Cys Gly Asn Phe Asp Gly Asp Gln Thr Asn Asp Trp His Asp Ser Gln
 450 455 460
 Glu Lys Pro Ala Met Glu Lys Trp Arg Ala Gln Asp Phe Ser Pro Cys
 465 470 475 480
 Tyr Gly

<210> 4618

<211> 552

<212> PRT

<213> Homo sapiens

<400> 4618

Thr Val Gly Ser Asp Arg Asp Thr Leu Ala Lys Arg Leu Pro Ala Ala
 1 5 10 15

Ala Ser Gly Gly Thr Ser Ile Cys Ser Gly Leu Arg Ser Ala Phe Thr
 20 25 30

Val Ile Arg Lys Lys Tyr Pro Thr Asp Gly Ser Glu Ile Val Leu Leu
 35 40 45

4189

Thr Asp Gly Glu Asp Asn Thr Ile Ser Gly Cys Phe Asn Glu Val Lys
 50 55 60
 Gln Ser Gly Ala Ile Ile His Thr Val Ala Leu Gly Pro Ser Ala Ala
 65 70 75 80
 Gln Glu Leu Glu Glu Leu Ser Lys Met Thr Gly Gly Leu Gln Thr Tyr
 85 90 95
 Ala Ser Asp Gln Val Gln Asn Asn Gly Leu Ile Asp Ala Phe Gly Ala
 100 105 110
 Leu Ser Ser Gly Asn Gly Ala Val Ser Gln Arg Ser Ile Gln Leu Glu
 115 120 125
 Ser Lys Gly Leu Thr Leu Gln Asn Ser Gln Trp Met Asn Gly Thr Val
 130 135 140
 Ile Val Asp Ser Thr Val Gly Lys Asp Thr Leu Phe Leu Ile Thr Trp
 145 150 155 160
 Thr Thr Gln Pro Pro Gln Ile Leu Leu Trp Asp Pro Ser Gly Gln Lys
 165 170 175
 Gln Gly Gly Phe Val Val Asp Lys Asn Thr Lys Met Ala Tyr Leu Gln
 180 185 190
 Ile Pro Gly Ile Ala Lys Val Gly Thr Trp Lys Tyr Ser Leu Gln Ala
 195 200 205
 Ser Ser Gln Thr Leu Thr Leu Thr Val Thr Ser Arg Ala Ser Asn Ala
 210 215 220
 Thr Leu Pro Pro Ile Thr Val Thr Ser Lys Thr Asn Lys Asp Thr Ser
 225 230 235 240
 Lys Phe Pro Ser Pro Leu Val Val Tyr Ala Asn Ile Arg Gln Gly Ala
 245 250 255
 Ser Pro Ile Leu Arg Ala Ser Val Thr Ala Leu Ile Glu Ser Val Asn
 260 265 270
 Gly Lys Thr Val Thr Leu Glu Leu Leu Asp Asn Gly Ala Gly Ala Asp
 275 280 285
 Ala Thr Lys Asp Asp Gly Val Tyr Ser Arg Tyr Phe Thr Thr Tyr Asp
 290 295 300
 Thr Asn Gly Arg Tyr Ser Val Lys Val Arg Ala Leu Gly Gly Val Asn
 305 310 315 320

4190

Ala Ala Arg Arg Arg Val Ile Pro Gln Gln Ser Gly Ala Leu Tyr Ile
 325 330 335
 Pro Gly Trp Ile Glu Asn Asp Glu Ile Gln Trp Asn Pro Pro Arg Pro
 340 345 350
 Glu Ile Asn Lys Asp Asp Val Gln His Lys Gln Val Cys Phe Ser Arg
 355 360 365
 Thr Ser Ser Gly Gly Ser Phe Val Ala Ser Asp Val Pro Asn Ala Pro
 370 375 380
 Ile Pro Asp Leu Phe Pro Pro Gly Gln Ile Thr Asp Leu Lys Ala Glu
 385 390 395 400
 Ile His Gly Gly Ser Leu Ile Asn Leu Thr Trp Thr Ala Pro Gly Asp
 405 410 415
 Asp Tyr Asp His Gly Thr Ala His Lys Tyr Ile Ile Arg Ile Ser Thr
 420 425 430
 Ser Ile Leu Asp Leu Arg Asp Lys Phe Asn Glu Ser Leu Gln Val Asn
 435 440 445
 Thr Thr Ala Leu Ile Pro Lys Glu Ala Asn Ser Glu Glu Val Phe Leu
 450 455 460
 Phe Lys Pro Glu Thr Ile Thr Phe Glu Asn Gly Thr Asp Leu Phe Ile
 465 470 475 480
 Ala Ile Gln Ala Val Asp Lys Val Asp Leu Lys Ser Glu Ile Ser Asn
 485 490 495
 Ile Ala Arg Val Ser Leu Phe Ile Pro Pro Gln Thr Pro Pro Glu Thr
 500 505 510
 Pro Ser Pro Asp Glu Thr Ser Ala Pro Cys Pro Asn Ile His Ile Asn
 515 520 525
 Ser Thr Ile Pro Gly Ile His Ile Leu Lys Ile Met Trp Lys Trp Ile
 530 535 540
 Gly Glu Leu Gln Leu Ser Ile Ala
 545 550

<210> 4619

<211> 501

<212> PRT

4191

<213> Homo sapiens

<220>

<221> SITE

<222> (179)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4619

Gly	Thr	Ser	Gly	Gly	Gly	Ala	Gly	Ala	Met	Ala	Val	Leu	Leu	Glu	Thr
1				5					10					15	

Thr	Leu	Gly	Asp	Val	Val	Ile	Asp	Leu	Tyr	Thr	Glu	Glu	Arg	Pro	Arg
			20					25					30		

Ala	Cys	Leu	Asn	Phe	Leu	Lys	Leu	Cys	Lys	Ile	Lys	Tyr	Tyr	Asn	Tyr
		35					40					45			

Cys	Leu	Ile	His	Asn	Val	Gln	Arg	Asp	Phe	Ile	Ile	Gln	Thr	Gly	Asp
	50					55					60				

Pro	Thr	Gly	Thr	Gly	Arg	Gly	Gly	Glu	Ser	Ile	Phe	Gly	Gln	Leu	Tyr
65					70					75					80

Gly	Asp	Gln	Ala	Ser	Phe	Phe	Glu	Ala	Glu	Lys	Val	Pro	Arg	Ile	Lys
				85					90					95	

His	Lys	Lys	Lys	Gly	Thr	Val	Ser	Met	Val	Asn	Asn	Gly	Ser	Asp	Gln
			100					105					110		

His	Gly	Ser	Gln	Phe	Leu	Ile	Thr	Thr	Gly	Glu	Asn	Leu	Asp	Tyr	Leu
	115						120					125			

Asp	Gly	Val	His	Thr	Val	Phe	Gly	Glu	Val	Thr	Glu	Gly	Met	Asp	Ile
	130					135					140				

Ile	Lys	Lys	Ile	Asn	Glu	Thr	Phe	Val	Asp	Lys	Asp	Phe	Val	Pro	Tyr
145					150					155					160

Gln	Asp	Ile	Arg	Ile	Asn	His	Thr	Val	Ile	Leu	Asp	Asp	Pro	Phe	Asp
				165					170					175	

Asp	Pro	Xaa	Asp	Leu	Leu	Ile	Pro	Asp	Arg	Ser	Pro	Glu	Pro	Thr	Arg
			180					185					190		

Glu	Gln	Leu	Asp	Ser	Gly	Arg	Ile	Gly	Ala	Asp	Glu	Glu	Ile	Asp	Asp
		195					200					205			

Phe	Lys	Gly	Arg	Ser	Ala	Glu	Glu	Val	Glu	Glu	Ile	Lys	Ala	Glu	Lys
	210					215					220				

Glu	Ala	Lys	Thr	Gln	Ala	Ile	Leu	Leu	Glu	Met	Val	Gly	Asp	Leu	Pro
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4192

225		230		235		240
Asp Ala Asp Ile Lys Pro Pro Glu Asn Val Leu Phe Val Cys Lys Leu						
	245		250		255	
Asn Pro Val Thr Thr Asp Glu Asp Leu Glu Ile Ile Phe Ser Arg Phe						
	260		265		270	
Gly Pro Ile Arg Ser Cys Glu Val Ile Arg Asp Trp Lys Thr Gly Glu						
	275		280		285	
Ser Leu Cys Tyr Ala Phe Ile Glu Phe Glu Lys Glu Glu Asp Cys Glu						
	290		295		300	
Lys Ala Phe Phe Lys Met Asp Asn Val Leu Ile Asp Asp Arg Arg Ile						
305		310		315		320
His Val Asp Phe Ser Gln Ser Val Ala Lys Val Lys Trp Lys Gly Lys						
	325		330		335	
Gly Gly Lys Tyr Thr Lys Ser Asp Phe Lys Glu Tyr Glu Lys Glu Gln						
	340		345		350	
Asp Lys Pro Pro Asn Leu Val Leu Lys Asp Lys Val Lys Pro Lys Gln						
	355		360		365	
Asp Thr Lys Tyr Asp Leu Ile Leu Asp Glu Gln Ala Glu Asp Ser Lys						
	370		375		380	
Ser Ser His Ser His Thr Ser Lys Lys His Lys Lys Lys Thr His His						
385		390		395		400
Cys Ser Glu Glu Lys Glu Asp Glu Asp Tyr Met Pro Ile Lys Asn Thr						
	405		410		415	
Asn Gln Asp Ile Tyr Arg Glu Met Gly Phe Gly His Tyr Glu Glu Glu						
	420		425		430	
Glu Ser Cys Trp Glu Lys Gln Lys Ser Glu Lys Arg Asp Arg Thr Gln						
	435		440		445	
Asn Arg Ser Arg Ser Arg Ser Arg Glu Arg Asp Gly His Tyr Ser Asn						
	450		455		460	
Ser His Lys Ser Lys Tyr Gln Thr Asp Leu Tyr Glu Arg Glu Arg Ser						
465		470		475		480
Lys Lys Arg Asp Arg Ser Arg Ser Pro Lys Lys Ser Lys Asp Lys Glu						
	485		490		495	
Lys Ser Lys Tyr Arg						

4193

500

<210> 4620

<211> 63

<212> PRT

<213> Homo sapiens

<400> 4620

Asn Phe Leu Leu Phe Thr Asn Ser Asp Glu Ile Gln Phe Phe Arg Arg
1 5 10 15

Leu Ser Phe Leu Glu Gln Ala Thr Ser Leu Pro Leu Glu Cys Pro Ile
20 25 30

Thr Tyr Ser Ser Thr Phe Ser Phe Cys Ser Arg Cys Leu Leu Lys Arg
35 40 45

Ser Gly Ala Val Gly Gly Tyr Ala His Leu Ser Ser Ser Val Gln
50 55 60

<210> 4621

<211> 50

<212> PRT

<213> Homo sapiens

<400> 4621

Ser Gln His Phe Gly Arg Pro Arg Trp Thr Asp His Leu Arg Ser Gly
1 5 10 15

Val Arg Asp Gln Pro Gly Gln His Gly Gln Thr Trp Ser Leu Leu Lys
20 25 30

Ile Gln Lys Leu Ala Gly Val Ala Arg Cys Arg Ala Val Trp Gly Arg
35 40 45

His Gly
50

<210> 4622

<211> 81

<212> PRT

<213> Homo sapiens

<400> 4622

Gly Thr Arg Trp Pro Cys Gly Lys His Lys Arg Val Leu Ile Phe Pro

1	5						10						15			
Ser	Tyr	Met	Thr	Thr	Val	Ile	Asp	Tyr	Val	Lys	Pro	Ser	Asp	Leu	Lys	
			20			25						30				
Lys	Asp	Met	Asn	Glu	Thr	Phe	Lys	Glu	Lys	Phe	Pro	His	Ile	Lys	Leu	
			35			40						45				
Thr	Leu	Ser	Lys	Ile	Arg	Ser	Leu	Lys	Arg	Glu	Met	Arg	Asn	Leu	Arg	
			50			55						60				
Arg	Arg	Thr	Val	Ala	Leu	Arg	Ser	Pro	Arg	Trp	Pro	Trp	Pro	Arg	Leu	
65					70						75			80		
Leu																

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<210> 4623
<211> 139
<212> PRT
<213> Homo sapiens
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<400> 4623
Ser Gln His Phe Leu Ser Leu Pro Leu Trp Phe Glu Gly Tyr Gly Leu
  1             5             10             15
Leu Gln Tyr Ile Ser Ser Phe Lys Ser Cys His Cys Phe Val Gly Pro
          20             25             30
Gln Leu Ile Gly Pro Gln Asn Lys Pro Cys Cys Phe Ala His Thr Leu
          35             40             45
Ala Phe Phe Cys Thr Phe His Ser Gly Trp Ala Trp Pro Lys Gln Ala
          50             55             60
Gln Ala Lys Asp Leu Pro Ser Cys Met Tyr Phe Gln Tyr Pro Glu Thr
  65             70             75             80
Val Phe Gly Asp Ile Met Pro Arg Val Asn Lys Pro Asp Leu Gly Thr
          85             90             95
Ala Leu Ser Arg Gly Phe Thr His Glu Ile Asn Lys Thr Tyr Leu Ser
          100            105            110
His Leu Lys Leu Gly Ser Gln Lys Thr His Phe Trp Phe Ile Ile Ser
          115            120            125
Phe Tyr Ala His Leu Thr Leu Ile Ile Tyr Pro
          130            135

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4195

<210> 4624

<211> 90

<212> PRT

<213> Homo sapiens

<400> 4624

Gly Thr Arg Arg His Pro Ala Pro Ser Ala Gly Cys Ala Ser Gly Ala
 1 5 10 15
 Glu Val Arg Asp Lys Met Val Pro Pro Val Gln Val Ser Pro Leu Ile
 20 25 30
 Lys Leu Gly Arg Tyr Ser Ala Leu Phe Leu Gly Val Ala Tyr Gly Ala
 35 40 45
 Thr Arg Tyr Asn Tyr Leu Lys Pro Arg Ala Glu Glu Glu Arg Arg Ile
 50 55 60
 Ala Ala Glu Glu Lys Lys Lys Gln Asp Glu Leu Lys Arg Ile Ala Arg
 65 70 75 80
 Glu Leu Ala Glu Asp Asp Ser Ile Leu Lys
 85 90

<210> 4625

<211> 328

<212> PRT

<213> Homo sapiens

<400> 4625

Gln Ala Thr Gly Gly Pro Glu Leu Ala Ser Ser Val Leu Ser Pro Leu
 1 5 10 15
 Leu Asn Lys Asp Thr Ile Asp Phe Leu Asn Tyr Thr Val Asn Gly Asp
 20 25 30
 Glu Arg Gln Leu Trp Met Ser Leu Gly Gly Thr Trp Met Lys Ala Arg
 35 40 45
 Ala Glu Trp Pro Lys Glu Gln Phe Ile Pro Pro Tyr Val Pro Arg Phe
 50 55 60
 Arg Asn Gly Trp Glu Pro Pro Met Leu Asn Phe Met Gly Ala Thr Met
 65 70 75 80
 Glu Gln Asp Leu Tyr Gln Leu Ala Glu Ser Val Ala Asn Val Ala Glu

4196

	85		90		95
His Gln Arg Lys Gln Glu Ile Lys Arg Leu Ser Thr Glu His Ser Ser	100	105	110		
Val Ser Glu Tyr His Pro Ala Asp Gly Tyr Ala Phe Ser Ser Asn Ile	115	120	125		
Tyr Thr Arg Gly Ser His Leu Asp Gln Gly Glu Ala Ala Val Ala Phe	130	135	140		
Lys Pro Thr Ser Asn Arg His Ile Asp Arg Asn Tyr Glu Pro Leu Lys	145	150	155	160	
Thr Gln Pro Lys Lys Tyr Ala Lys Ser Lys Tyr Asp Phe Val Ala Arg	165	170	175		
Asn Asn Ser Glu Leu Ser Val Leu Lys Asp Asp Ile Leu Glu Ile Leu	180	185	190		
Asp Asp Arg Lys Gln Trp Trp Lys Val Arg Asn Ala Ser Gly Asp Ser	195	200	205		
Gly Phe Val Pro Asn Asn Ile Leu Asp Ile Val Arg Pro Pro Glu Ser	210	215	220		
Gly Leu Gly Arg Ala Asp Pro Pro Tyr Thr His Thr Ile Gln Lys Gln	225	230	235	240	
Arg Met Glu Tyr Gly Pro Arg Pro Ala Asp Thr Pro Pro Ala Pro Ser	245	250	255		
Pro Pro Pro Thr Pro Ala Pro Val Pro Val Pro Leu Pro Pro Ser Thr	260	265	270		
Pro Ala Pro Val Pro Val Ser Lys Val Pro Ala Asn Ile Thr Arg Gln	275	280	285		
Asn Ser Ser Ser Ser Asp Ser Gly Gly Ser Ile Val Arg Asp Ser Gln	290	295	300		
Arg His Lys Gln Leu Pro Val Asp Arg Arg Asn Leu Arg Trp Arg Lys	305	310	315	320	
Cys Lys Met Asn Ser Ser Thr Asp	325				

<210> 4626

<211> 578

4197

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (81)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (89)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4626

Gly	Val	Gly	Asp	Gly	Gln	Ala	Pro	Met	Pro	Gly	Xaa	Thr	Glu	Glu	Pro
1				5					10					15	

Arg	Pro	Pro	Glu	Gln	Gln	Asp	Gln	Glu	Gly	Gly	Glu	Ala	Ala	Lys	Ala
			20					25					30		

Ala	Pro	Glu	Xaa	Pro	Gln	Gln	Arg	Pro	Pro	Glu	Ala	Val	Ala	Ala	Ala
		35					40					45			

Pro	Ala	Gly	Thr	Thr	Ser	Ser	Arg	Val	Leu	Arg	Gly	Gly	Arg	Asp	Arg
	50					55					60				

Gly	Arg	Ala	Ala	Ala	Ala	Arg	Arg	Arg	Xaa	Ser	Cys	Val	Pro	Pro	Glu
65					70					75					80

Xaa	Gly	Arg	Val	Ser	Pro	Pro	Ala	Xaa	Glu	Gln	Pro	Gln	Arg	Gln	Ala
			85						90					95	

Ser	Arg	Arg	Pro	Arg	Ala	Ala	Ala	Gln	Ala	Ala	Lys	Ser	Pro	Ser	Pro
			100					105					110		

Val	Gln	Gly	Lys	Lys	Ser	Pro	Arg	Leu	Leu	Cys	Ile	Glu	Lys	Val	Thr
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4198

115		120		125
Thr Asp Lys Asp Pro Lys Glu Glu Lys Glu Glu Glu Asp Asp Ser Ala				
130		135		140
Leu Pro Gln Glu Val Ser Ile Ala Ala Ser Arg Pro Ser Arg Gly Trp				
145		150		155 160
Arg Ser Ser Arg Thr Ser Val Ser Arg His Arg Asp Thr Glu Asn Thr				
	165		170	175
Arg Ser Ser Arg Ser Lys Thr Gly Ser Leu Gln Leu Ile Cys Lys Ser				
	180		185	190
Glu Pro Asn Thr Asp Gln Leu Asp Tyr Asp Val Gly Glu Glu His Gln				
	195		200	205
Ser Pro Gly Gly Ile Ser Ser Glu Glu Glu Glu Glu Glu Glu Glu				
	210		215	220
Met Leu Ile Ser Glu Glu Glu Ile Pro Phe Lys Asp Asp Pro Arg Asp				
	225		230	235 240
Glu Thr Tyr Lys Pro His Leu Glu Arg Glu Thr Pro Lys Pro Arg Arg				
	245		250	255
Lys Ser Gly Lys Val Lys Glu Glu Lys Glu Lys Lys Glu Ile Lys Val				
	260		265	270
Glu Val Glu Val Glu Val Lys Glu Glu Glu Asn Glu Ile Arg Glu Asp				
	275		280	285
Glu Glu Pro Pro Arg Lys Arg Gly Arg Arg Arg Lys Asp Asp Lys Ser				
	290		295	300
Pro Arg Leu Pro Lys Arg Arg Lys Lys Pro Pro Ile Gln Tyr Val Arg				
	305		310	315 320
Cys Glu Met Glu Gly Cys Gly Thr Val Leu Ala His Pro Arg Tyr Leu				
	325		330	335
Gln His His Ile Lys Tyr Gln His Leu Leu Lys Lys Lys Tyr Val Cys				
	340		345	350
Pro His Pro Ser Cys Gly Arg Leu Phe Arg Leu Gln Lys Gln Leu Leu				
	355		360	365
Arg His Ala Lys His His Thr Asp Gln Arg Asp Tyr Ile Cys Glu Tyr				
	370		375	380
Cys Ala Arg Ala Phe Lys Ser Ser His Asn Leu Ala Val His Arg Met				

4199

385 390 395 400
 Ile His Thr Gly Glu Lys Pro Leu Gln Cys Glu Ile Cys Gly Phe Thr
 405 410 415
 Cys Arg Gln Lys Ala Ser Leu Asn Trp His Met Lys Lys His Asp Ala
 420 425 430
 Asp Ser Phe Tyr Gln Phe Ser Cys Asn Ile Cys Gly Lys Lys Phe Glu
 435 440 445
 Lys Lys Asp Ser Val Val Ala His Lys Ala Lys Ser His Pro Glu Val
 450 455 460
 Leu Ile Ala Glu Ala Leu Ala Ala Asn Ala Gly Ala Leu Ile Thr Ser
 465 470 475 480
 Thr Asp Ile Leu Gly Thr Asn Pro Glu Ser Leu Thr Gln Pro Ser Asp
 485 490 495
 Gly Gln Gly Leu Pro Leu Leu Pro Glu Pro Leu Gly Asn Ser Thr Ser
 500 505 510
 Gly Glu Cys Leu Leu Leu Glu Ala Glu Gly Met Ser Lys Ser Tyr Cys
 515 520 525
 Ser Gly Thr Glu Arg Val Ser Leu Met Ala Asp Gly Lys Ile Phe Val
 530 535 540
 Gly Ser Gly Ser Ser Gly Gly Thr Glu Gly Leu Val Met Asn Ser Asp
 545 550 555 560
 Ile Leu Gly Ala Thr Thr Glu Val Leu Ile Glu Asp Ser Asp Ser Ala
 565 570 575
 Gly Pro

<210> 4627

<211> 263

<212> PRT

<213> Homo sapiens

<400> 4627

Lys Ile Met Ala Ser Pro Asp Trp Gly Tyr Asp Asp Lys Asn Gly Pro
 1 5 10 15

Glu Gln Trp Ser Lys Leu Tyr Pro Ile Ala Asn Gly Asn Asn Gln Ser
 20 25 30

4200

Pro Val Asp Ile Lys Thr Ser Glu Thr Lys His Asp Thr Ser Leu Lys
 35 40 45

Pro Ile Ser Val Ser Tyr Asn Pro Ala Thr Ala Lys Glu Ile Ile Asn
 50 55 60

Val Gly His Ser Phe His Val Asn Phe Glu Asp Asn Asp Asn Arg Ser
 65 70 75 80

Val Leu Lys Gly Gly Pro Phe Ser Asp Ser Tyr Arg Leu Phe Gln Phe
 85 90 95

His Phe His Trp Gly Ser Thr Asn Glu His Gly Ser Glu His Thr Val
 100 105 110

Asp Gly Val Lys Tyr Ser Ala Glu Leu His Val Ala His Trp Asn Ser
 115 120 125

Ala Lys Tyr Ser Ser Leu Ala Glu Ala Ala Ser Lys Ala Asp Gly Leu
 130 135 140

Ala Val Ile Gly Val Leu Met Lys Val Gly Glu Ala Asn Pro Lys Leu
 145 150 155 160

Gln Lys Val Leu Asp Ala Leu Gln Ala Ile Lys Thr Lys Gly Lys Arg
 165 170 175

Ala Pro Phe Thr Asn Phe Asp Pro Ser Thr Leu Leu Pro Ser Ser Leu
 180 185 190

Asp Phe Trp Thr Tyr Pro Gly Ser Leu Thr His Pro Pro Leu Tyr Glu
 195 200 205

Ser Val Thr Trp Ile Ile Cys Lys Glu Ser Ile Ser Val Ser Ser Glu
 210 215 220

Gln Leu Ala Gln Phe Arg Ser Leu Leu Ser Asn Val Glu Gly Asp Asn
 225 230 235 240

Ala Val Pro Met Gln His Asn Asn Arg Pro Thr Gln Pro Leu Lys Gly
 245 250 255

Arg Thr Val Arg Ala Ser Phe
 260

<210> 4628

<211> 301

<212> PRT

4201

<213> Homo sapiens

<220>

<221> SITE

<222> (156)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (185)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4628

Ala	Asp	Ala	Trp	Gly	Arg	Thr	Ala	Glu	Leu	Thr	Val	Thr	Ala	Ala	Leu
1				5					10					15	

Thr	Arg	Glu	Phe	Leu	Glu	Pro	Lys	Leu	Phe	Ser	Thr	Glu	Asp	Lys	Gln
		20						25					30		

Ala	Ala	Glu	Thr	Met	Gly	Ser	Pro	Ser	Ala	Cys	Pro	Tyr	Arg	Val	Cys
		35					40					45			

Ile	Pro	Trp	Gln	Gly	Leu	Leu	Leu	Thr	Ala	Ser	Leu	Leu	Thr	Phe	Trp
	50					55					60				

Asn	Leu	Pro	Asn	Ser	Ala	Gln	Thr	Asn	Ile	Asp	Val	Val	Pro	Phe	Asn
65					70					75					80

Val	Ala	Glu	Gly	Lys	Glu	Val	Leu	Leu	Val	Val	His	Asn	Glu	Ser	Gln
				85					90					95	

Asn	Leu	Tyr	Gly	Tyr	Asn	Trp	Tyr	Lys	Gly	Glu	Arg	Val	His	Ala	Asn
		100						105					110		

Tyr	Arg	Ile	Ile	Gly	Tyr	Val	Lys	Asn	Ile	Ser	Gln	Glu	Asn	Ala	Pro
		115					120					125			

Gly	Pro	Ala	His	Asn	Gly	Arg	Glu	Thr	Ile	Tyr	Pro	Asn	Gly	Thr	Leu
	130					135						140			

Leu	Ile	Gln	Asn	Val	Thr	His	Asn	Asp	Ala	Gly	Xaa	Tyr	Thr	Leu	His
145					150					155					160

Val	Ile	Lys	Glu	Asn	Leu	Val	Asn	Glu	Glu	Val	Thr	Arg	Gln	Phe	Tyr
				165					170					175	

Val	Phe	Ser	Glu	Pro	Pro	Lys	Pro	Xaa	Ile	Thr	Ser	Asn	Asn	Phe	Asn
			180					185					190		

Pro	Val	Glu	Asn	Lys	Asp	Ile	Val	Val	Leu	Thr	Cys	Gln	Pro	Glu	Thr
			195				200					205			

4202

Gln Asn Thr Thr Tyr Leu Trp Trp Val Asn Asn Gln Ser Leu Leu Val
 210 215 220

Ser Pro Arg Leu Leu Leu Ser Thr Asp Asn Arg Thr Leu Val Leu Leu
 225 230 235 240

Ser Ala Thr Lys Asn Asp Ile Gly Pro Tyr Glu Cys Glu Ile Gln Asn
 245 250 255

Pro Val Gly Ala Ser Arg Ser Asp Pro Val Thr Leu Asn Val Arg Tyr
 260 265 270

Glu Ser Val Gln Ala Ser Ser Pro Asp Leu Ser Ala Gly Thr Ala Val
 275 280 285

Ser Ile Met Ile Gly Val Leu Ala Gly Met Ala Leu Ile
 290 295 300

<210> 4629

<211> 256

<212> PRT

<213> Homo sapiens

<400> 4629

Pro Ala Gly Ala Gly Cys Arg Ala Gly Glu Arg Ala Gly Gln Ala Lys
 1 5 10 15

Ala Leu Val Pro Ala Arg Cys Gly Pro Gln Ser Ala Ala Met Gly Ala
 20 25 30

Ser Ala Arg Leu Leu Arg Ala Val Ile Met Gly Ala Pro Gly Ser Gly
 35 40 45

Lys Gly Thr Val Ser Ser Arg Ile Thr Thr His Phe Glu Leu Lys His
 50 55 60

Leu Ser Ser Gly Asp Leu Leu Arg Asp Asn Met Leu Arg Gly Thr Glu
 65 70 75 80

Ile Gly Val Leu Ala Lys Ala Phe Ile Asp Gln Gly Lys Leu Ile Pro
 85 90 95

Asp Asp Val Met Thr Arg Leu Ala Leu His Glu Leu Lys Asn Leu Thr
 100 105 110

Gln Tyr Ser Trp Leu Leu Asp Gly Phe Pro Arg Thr Leu Pro Gln Ala
 115 120 125

4203

Glu Ala Leu Asp Arg Ala Tyr Gln Ile Asp Thr Val Ile Asn Leu Asn
 130 135 140
 Val Pro Phe Glu Val Ile Lys Gln Arg Leu Thr Ala Arg Trp Ile His
 145 150 155 160
 Pro Ala Ser Gly Arg Val Tyr Asn Ile Glu Phe Asn Pro Pro Lys Thr
 165 170 175
 Val Gly Ile Asp Asp Leu Thr Gly Glu Pro Leu Ile Gln Arg Glu Asp
 180 185 190
 Asp Lys Pro Glu Thr Val Ile Lys Arg Leu Lys Ala Tyr Glu Asp Gln
 195 200 205
 Thr Lys Pro Val Leu Glu Tyr Tyr Gln Lys Lys Gly Val Leu Glu Thr
 210 215 220
 Phe Ser Gly Thr Glu Thr Asn Lys Ile Trp Pro Tyr Val Tyr Ala Phe
 225 230 235 240
 Leu Gln Thr Lys Val Pro Gln Arg Ser Gln Lys Ala Ser Val Thr Pro
 245 250 255

<210> 4630

<211> 102

<212> PRT

<213> Homo sapiens

<400> 4630

Asp Trp Gly Leu Ala Arg Ser Arg Pro Gly Cys Lys Cys Cys Gly Gly
 1 5 10 15
 Arg Lys Ser Arg Pro His Arg Arg Gly Ser Ala Val Met Pro Lys Tyr
 20 25 30
 Tyr Glu Asp Lys Pro Gln Ala Ala Arg Cys Ala Gly Leu Lys Glu Asp
 35 40 45
 Leu Gly Ala Cys Leu Leu Gln Ser Asp Cys Val Val Gln Glu Gly Lys
 50 55 60
 Ser Pro Arg Gln Cys Leu Lys Glu Gly Tyr Cys Asn Ser Leu Lys Tyr
 65 70 75 80
 Ala Phe Phe Glu Cys Lys Arg Ser Val Leu Asp Asn Arg Ala Arg Phe

4204

85

90

95

Arg Gly Arg Lys Gly Tyr
100

<210> 4631

<211> 466

<212> PRT

<213> Homo sapiens

<400> 4631

Glu His Gln Glu Ile Met Asn Asn Phe Gly Asn Glu Glu Phe Asp Cys
1 5 10 15

His Phe Leu Asp Glu Gly Phe Thr Ala Lys Asp Ile Leu Asp Gln Lys
20 25 30

Ile Asn Glu Val Ser Ser Ser Asp Asp Lys Asp Ala Phe Tyr Val Ala
35 40 45

Asp Leu Gly Asp Ile Leu Lys Lys His Leu Arg Trp Leu Lys Ala Leu
50 55 60

Pro Arg Val Thr Pro Phe Tyr Ala Val Lys Cys Asn Asp Ser Lys Ala
65 70 75 80

Ile Val Lys Thr Leu Ala Ala Thr Gly Thr Gly Phe Asp Cys Ala Ser
85 90 95

Lys Thr Glu Ile Gln Leu Val Gln Ser Leu Gly Val Pro Pro Glu Arg
100 105 110

Ile Ile Tyr Ala Asn Pro Cys Lys Gln Val Ser Gln Ile Lys Tyr Ala
115 120 125

Ala Asn Asn Gly Val Gln Met Met Thr Phe Asp Ser Glu Val Glu Leu
130 135 140

Met Lys Val Ala Arg Ala His Pro Lys Ala Lys Leu Val Leu Arg Ile
145 150 155 160

Ala Thr Asp Asp Ser Lys Ala Val Cys Arg Leu Ser Val Lys Phe Gly
165 170 175

Ala Thr Leu Arg Thr Ser Arg Leu Leu Leu Glu Arg Ala Lys Glu Leu
180 185 190

Asn Ile Asp Val Val Gly Val Ser Phe His Val Gly Ser Gly Cys Thr
195 200 205

4205

Asp	Pro	Glu	Thr	Phe	Val	Gln	Ala	Ile	Ser	Asp	Ala	Arg	Cys	Val	Phe	210	215	220	
Asp	Met	Gly	Ala	Glu	Val	Gly	Phe	Ser	Met	Tyr	Leu	Leu	Asp	Ile	Gly	225	230	235	240
Gly	Gly	Phe	Pro	Gly	Ser	Glu	Asp	Val	Lys	Leu	Lys	Phe	Glu	Glu	Ile	245	250	255	
Thr	Gly	Val	Ile	Asn	Pro	Ala	Leu	Asp	Lys	Tyr	Phe	Pro	Ser	Asp	Ser	260	265	270	
Gly	Val	Arg	Ile	Ile	Ala	Glu	Pro	Gly	Arg	Tyr	Tyr	Val	Ala	Ser	Ala	275	280	285	
Phe	Thr	Leu	Ala	Val	Asn	Ile	Ile	Ala	Lys	Lys	Ile	Val	Leu	Lys	Glu	290	295	300	
Gln	Thr	Gly	Ser	Asp	Asp	Glu	Asp	Glu	Ser	Ser	Glu	Gln	Thr	Phe	Met	305	310	315	320
Tyr	Tyr	Val	Asn	Asp	Gly	Val	Tyr	Gly	Ser	Phe	Asn	Cys	Ile	Leu	Tyr	325	330	335	
Asp	His	Ala	His	Val	Lys	Pro	Leu	Leu	Gln	Lys	Arg	Pro	Lys	Pro	Asp	340	345	350	
Glu	Lys	Tyr	Tyr	Ser	Ser	Ser	Ile	Trp	Gly	Pro	Thr	Cys	Asp	Gly	Leu	355	360	365	
Asp	Arg	Ile	Val	Glu	Arg	Cys	Asp	Leu	Pro	Glu	Met	His	Val	Gly	Asp	370	375	380	
Trp	Met	Leu	Phe	Glu	Asn	Met	Gly	Ala	Tyr	Thr	Val	Ala	Ala	Ala	Ser	385	390	395	400
Thr	Phe	Asn	Gly	Phe	Gln	Arg	Pro	Thr	Ile	Tyr	Tyr	Val	Met	Ser	Gly	405	410	415	
Pro	Ala	Trp	Gln	Leu	Met	Gln	Gln	Phe	Gln	Asn	Pro	Asp	Phe	Pro	Pro	420	425	430	
Glu	Val	Glu	Glu	Gln	Asp	Ala	Ser	Thr	Leu	Pro	Val	Ser	Cys	Ala	Trp	435	440	445	
Glu	Ser	Gly	Met	Lys	Arg	His	Arg	Ala	Ala	Cys	Ala	Ser	Ala	Ser	Ile	450	455	460	
Asn	Val															465			

4206

<210> 4632

<211> 178

<212> PRT

<213> Homo sapiens

<400> 4632

Asn Ser Ala Arg Gly His Cys Trp Leu Arg Leu Arg Ser Gly Pro Trp
 1 5 10 15

Ile Ser Ser Lys Met Ala Ala Arg Ser Val Ser Gly Ile Thr Arg Arg
 20 25 30

Val Phe Met Trp Thr Val Ser Gly Thr Pro Cys Arg Glu Phe Trp Ser
 35 40 45

Arg Phe Arg Lys Glu Lys Glu Pro Val Val Val Glu Thr Val Glu Glu
 50 55 60

Lys Lys Glu Pro Ile Leu Val Cys Pro Pro Leu Arg Ser Arg Ala Tyr
 65 70 75 80

Thr Pro Pro Glu Asp Leu Gln Ser Arg Leu Glu Ser Tyr Val Lys Glu
 85 90 95

Val Phe Gly Ser Ser Leu Pro Ser Asn Trp Gln Asp Ile Ser Leu Glu
 100 105 110

Asp Ser Arg Leu Lys Phe Asn Leu Leu Ala His Leu Ala Asp Asp Leu
 115 120 125

Gly His Val Val Pro Asn Ser Arg Leu His Gln Met Cys Arg Val Arg
 130 135 140

Asp Val Leu Asp Phe Tyr Asn Val Pro Ile Gln Asp Arg Ser Lys Phe
 145 150 155 160

Asp Glu Leu Ser Ala Ser Asn Leu Pro Pro Asn Leu Lys Ile Thr Trp
 165 170 175

Ser Tyr

<210> 4633

<211> 273

<212> PRT

<213> Homo sapiens

4207

<400> 4633

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Arg Pro Ala Pro Ala Gly Ala Arg Pro Pro Leu Ile Pro Asp Pro Ala
 1              5              10              15

Val Gly Ala Met Ala Glu Ala Val Leu Arg Val Ala Arg Arg Gln Leu
      20              25              30

Ser Gln Arg Gly Gly Ser Gly Ala Pro Ile Leu Leu Arg Gln Met Phe
      35              40              45

Glu Pro Val Ser Cys Thr Phe Thr Tyr Leu Leu Gly Asp Arg Glu Ser
      50              55              60

Arg Glu Ala Val Leu Ile Asp Pro Val Leu Glu Thr Ala Pro Arg Asp
      65              70              75              80

Ala Gln Leu Ile Lys Glu Leu Gly Leu Arg Leu Leu Tyr Ala Val Asn
      85              90              95

Thr His Cys His Ala Asp His Ile Thr Gly Ser Gly Leu Leu Arg Ser
      100             105             110

Leu Leu Pro Gly Cys Gln Ser Val Ile Ser Arg Leu Ser Gly Ala Gln
      115             120             125

Ala Asp Leu His Ile Glu Asp Gly Asp Ser Ile Arg Phe Gly Arg Phe
      130             135             140

Ala Leu Glu Thr Arg Ala Ser Pro Gly His Thr Pro Gly Cys Val Thr
      145             150             155             160

Phe Val Leu Asn Asp His Ser Met Ala Phe Thr Gly Asp Ala Leu Leu
      165             170             175

Ile Arg Gly Cys Gly Arg Thr Asp Phe Gln Gln Gly Cys Ala Lys Thr
      180             185             190

Leu Tyr His Ser Val His Glu Lys Ile Phe Thr Leu Pro Gly Asp Cys
      195             200             205

Leu Ile Tyr Pro Ala His Asp Tyr His Gly Phe Thr Val Ser Thr Val
      210             215             220

Glu Glu Glu Arg Thr Leu Asn Pro Arg Leu Thr Leu Ser Cys Glu Glu
      225             230             235             240

Phe Val Lys Ile Met Gly Asn Leu Asn Leu Pro Lys Pro Gln Gln Ile
      245             250             255

Asp Phe Ala Val Pro Ala Asn Met Arg Cys Gly Val Gln Thr Pro Thr

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4208

260

265

270

Ala

<210> 4634

<211> 311

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4634

Val	Thr	Ser	Glu	Gly	Val	Arg	Val	Arg	Ser	Ser	Arg	Gly	Arg	Ala	Xaa
1				5					10					15	

Gly	Val	Trp	Arg	Phe	Glu	Arg	Asp	Glu	Asp	Gly	Thr	Gly	Ala	Gly	Cys
			20					25					30		

Gly	Gln	Trp	Thr	Arg	Phe	Cys	Arg	Glu	Pro	Lys	Met	Ala	Val	Asn	Val
		35					40					45			

Tyr	Ser	Thr	Ser	Val	Thr	Ser	Asp	Asn	Leu	Ser	Arg	His	Asp	Met	Leu
	50					55					60				

Ala	Trp	Ile	Asn	Glu	Ser	Leu	Gln	Leu	Asn	Leu	Thr	Lys	Ile	Glu	Gln
65					70					75				80	

Leu	Cys	Ser	Gly	Ala	Ala	Tyr	Cys	Gln	Phe	Met	Asp	Met	Leu	Phe	Pro
				85					90					95	

Gly	Ser	Ile	Ala	Leu	Lys	Lys	Val	Lys	Phe	Gln	Ala	Lys	Leu	Glu	His
			100					105					110		

Glu	Tyr	Ile	Gln	Asn	Phe	Lys	Ile	Leu	Gln	Ala	Gly	Phe	Lys	Arg	Met
		115					120					125			

Gly	Val	Asp	Lys	Ile	Ile	Pro	Val	Asp	Lys	Leu	Val	Lys	Gly	Lys	Phe
	130					135					140				

Gln	Asp	Asn	Phe	Glu	Phe	Val	Gln	Trp	Phe	Lys	Lys	Phe	Phe	Asp	Ala
145					150					155					160

Asn	Tyr	Asp	Gly	Lys	Asp	Tyr	Asp	Pro	Val	Ala	Ala	Arg	Gln	Gly	Gln
				165					170					175	

4209

Glu Thr Ala Val Ala Pro Ser Leu Val Ala Pro Ala Leu Asn Lys Pro
 180 185 190
 Lys Lys Pro Leu Thr Ser Ser Ser Ala Ala Pro Gln Arg Pro Ile Ser
 195 200 205
 Thr Gln Arg Thr Ala Ala Ala Pro Lys Ala Gly Pro Gly Val Val Arg
 210 215 220
 Lys Asn Pro Gly Val Gly Asn Gly Asp Asp Glu Ala Ala Glu Leu Met
 225 230 235 240
 Gln Gln Val Asn Val Leu Lys Leu Thr Val Glu Asp Leu Glu Lys Glu
 245 250 255
 Arg Asp Phe Tyr Phe Gly Lys Leu Arg Asn Ile Glu Leu Ile Cys Gln
 260 265 270
 Glu Asn Glu Gly Glu Asn Asp Pro Val Leu Gln Arg Ile Val Asp Ile
 275 280 285
 Leu Tyr Ala Thr Asp Glu Gly Phe Val Ile Pro Asp Glu Gly Gly Pro
 290 295 300
 Gln Glu Glu Gln Glu Glu Tyr
 305 310

<210> 4635

<211> 367

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4635

Asn Ala Met Arg Xaa Ser Gly Asp Ala Phe Asp Ile Gln Arg Cys Tyr
 1 5 10 15

Cys Asn Tyr Thr Thr Asp Val Val Ala Ser Val Ala Phe Gly Thr Pro
 20 25 30

Val Asp Ser Trp Gln Ala Pro Glu Asp Pro Phe Val Lys His Cys Lys
 35 40 45

Arg Phe Phe Glu Phe Cys Ile Pro Arg Pro Ile Leu Val Leu Leu Leu
 50 55 60

4210

Ser	Phe	Pro	Ser	Ile	Met	Val	Pro	Leu	Ala	Arg	Ile	Leu	Pro	Asn	Lys	65	70	75	80
Asn	Arg	Asp	Glu	Leu	Asn	Gly	Phe	Phe	Asn	Lys	Leu	Ile	Arg	Asn	Val	85	90	95	
Ile	Ala	Leu	Arg	Asp	Gln	Gln	Ala	Ala	Glu	Glu	Arg	Arg	Arg	Asp	Phe	100	105	110	
Leu	Gln	Met	Val	Leu	Asp	Ala	Arg	His	Ser	Ala	Ser	Pro	Met	Gly	Val	115	120	125	
Gln	Asp	Phe	Asp	Ile	Val	Arg	Asp	Val	Phe	Ser	Ser	Thr	Gly	Cys	Lys	130	135	140	
Pro	Asn	Pro	Ser	Arg	Gln	His	Gln	Pro	Ser	Pro	Met	Ala	Arg	Pro	Leu	145	150	155	160
Thr	Val	Asp	Glu	Ile	Val	Gly	Gln	Ala	Phe	Ile	Phe	Leu	Ile	Ala	Gly	165	170	175	
Tyr	Glu	Ile	Ile	Thr	Asn	Thr	Leu	Ser	Phe	Ala	Thr	Tyr	Leu	Leu	Ala	180	185	190	
Thr	Asn	Pro	Asp	Cys	Gln	Glu	Lys	Leu	Leu	Arg	Glu	Val	Asp	Val	Phe	195	200	205	
Lys	Glu	Lys	His	Met	Ala	Pro	Glu	Phe	Cys	Ser	Leu	Glu	Glu	Gly	Leu	210	215	220	
Pro	Tyr	Leu	Asp	Met	Val	Ile	Ala	Glu	Thr	Leu	Arg	Met	Tyr	Pro	Pro	225	230	235	240
Ala	Phe	Arg	Phe	Thr	Arg	Glu	Ala	Ala	Gln	Asp	Cys	Glu	Val	Leu	Gly	245	250	255	
Gln	Arg	Ile	Pro	Ala	Gly	Ala	Val	Leu	Glu	Met	Ala	Val	Gly	Ala	Leu	260	265	270	
His	His	Asp	Pro	Glu	His	Trp	Pro	Ser	Pro	Glu	Thr	Phe	Asn	Pro	Glu	275	280	285	
Arg	Phe	Thr	Ala	Glu	Ala	Arg	Gln	Gln	His	Arg	Pro	Phe	Thr	Tyr	Leu	290	295	300	
Pro	Phe	Gly	Ala	Gly	Pro	Arg	Ser	Cys	Leu	Gly	Val	Arg	Leu	Gly	Leu	305	310	315	320
Leu	Glu	Val	Lys	Leu	Thr	Leu	Leu	His	Val	Leu	His	Lys	Phe	Arg	Phe	325	330	335	

4211

Gln Ala Cys Pro Glu Thr Gln Val Pro Leu Gln Leu Glu Ser Lys Ser
 340 345 350

Ala Leu Gly Pro Lys Asn Gly Val Tyr Ile Lys Ile Val Ser Arg
 355 360 365

<210> 4636

<211> 198

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4636

Val Val Cys Gln Ser Arg Arg Arg Arg Arg Arg Xaa Arg Arg Arg Arg
 1 5 10 15

Ser Thr Val Ile Arg Pro Pro Arg Arg Gly Val Gly Gly Leu Arg Gly
 20 25 30

Thr Phe Phe Phe Phe Arg Leu Thr Ala Gly Gln Leu Arg Ser Met Ser
 35 40 45

Thr Pro Ala Arg Arg Arg Leu Met Arg Asp Phe Lys Arg Leu Gln Glu
 50 55 60

Asp Pro Pro Val Gly Val Ser Gly Ala Pro Ser Glu Asn Asn Ile Met
 65 70 75 80

Gln Trp Asn Ala Val Ile Phe Gly Pro Glu Gly Thr Pro Phe Glu Asp
 85 90 95

Gly Thr Phe Lys Leu Val Ile Glu Phe Ser Glu Glu Tyr Pro Asn Lys
 100 105 110

Pro Pro Thr Val Arg Phe Leu Ser Lys Met Phe His Pro Asn Val Tyr
 115 120 125

Ala Asp Gly Ser Ile Cys Leu Asp Ile Leu Gln Asn Arg Trp Ser Pro
 130 135 140

Thr Tyr Asp Val Ser Ser Ile Leu Thr Ser Ile Gln Ser Leu Leu Asp
 145 150 155 160

Glu Pro Asn Pro Asn Ser Pro Ala Asn Ser Gln Ala Ala Gln Leu Tyr

170

<400> 4638
Leu Tyr Cys Phe Ser Ser Val Leu Glu Lys Lys Ile Asn Pro Ala Ile
1 5 10 15

4213

Thr Phe Trp Asn Cys Leu Asp Phe Ser Ala Val Gln Ala Ile Ser Asn
 20 25 30

Ile Val Leu Cys Arg Glu Cys His Cys Ser Phe Glu Cys Ile His Val
 35 40 45

Trp Val Leu Ile Ile Val Tyr Phe Leu Trp Gly Trp Lys Arg Lys Thr
 50 55 60

Ile Gln Ala Glu Lys Ser Ile Leu Lys Asp Ala Phe Leu
 65 70 75

<210> 4639

<211> 617

<212> PRT

<213> Homo sapiens

<400> 4639

Gly Thr Arg Glu Cys Pro Leu Cys Leu Val Arg Leu Pro Pro Glu Arg
 1 5 10 15

Ala Pro Arg Leu Leu Ser Cys Pro His Arg Ser Cys Arg Asp Cys Leu
 20 25 30

Arg His Tyr Leu Arg Leu Glu Ile Ser Glu Ser Arg Val Pro Ile Ser
 35 40 45

Cys Pro Glu Cys Ser Glu Arg Leu Asn Pro His Asp Ile Arg Leu Leu
 50 55 60

Leu Ala Asp Pro Pro Leu Met His Lys Tyr Glu Glu Phe Met Leu Arg
 65 70 75 80

Arg Tyr Leu Ala Ser Asp Pro Asp Cys Arg Trp Cys Pro Ala Pro Asp
 85 90 95

Cys Gly Tyr Ala Val Ile Ala Tyr Gly Cys Ala Ser Cys Pro Lys Leu
 100 105 110

Thr Cys Glu Arg Glu Gly Cys Gln Thr Glu Phe Cys Tyr His Cys Lys
 115 120 125

Gln Ile Trp His Pro Asn Gln Thr Cys Asp Met Ala Arg Gln Gln Arg
 130 135 140

Ala Gln Thr Leu Arg Val Arg Thr Lys His Thr Ser Gly Leu Ser Tyr
 145 150 155 160

4214

Gly	Gln	Glu	Ser	Gly	Pro	Asp	Asp	Ile	Lys	Pro	Cys	Pro	Arg	Cys	Ser	165	170	175
Ala	Tyr	Ile	Ile	Lys	Met	Asn	Asp	Gly	Ser	Cys	Asn	His	Met	Thr	Cys	180	185	190
Ala	Val	Cys	Gly	Cys	Glu	Phe	Cys	Trp	Leu	Cys	Met	Lys	Glu	Ile	Ser	195	200	205
Asp	Leu	His	Tyr	Leu	Ser	Pro	Ser	Gly	Cys	Thr	Phe	Trp	Gly	Lys	Lys	210	215	220
Pro	Trp	Ser	Arg	Lys	Lys	Lys	Ile	Leu	Trp	Gln	Leu	Gly	Thr	Leu	Ile	225	230	235
Gly	Ala	Pro	Val	Gly	Ile	Ser	Leu	Ile	Ala	Gly	Ile	Ala	Ile	Pro	Ala	245	250	255
Met	Val	Ile	Gly	Ile	Pro	Val	Tyr	Val	Gly	Arg	Lys	Ile	His	Ser	Arg	260	265	270
Tyr	Glu	Gly	Arg	Lys	Thr	Ser	Lys	His	Lys	Arg	Asn	Leu	Ala	Ile	Thr	275	280	285
Gly	Gly	Val	Thr	Leu	Ser	Val	Ile	Ala	Ser	Pro	Val	Ile	Ala	Ala	Val	290	295	300
Ser	Val	Gly	Ile	Gly	Val	Pro	Ile	Met	Leu	Ala	Tyr	Val	Tyr	Gly	Val	305	310	315
Val	Pro	Ile	Ser	Leu	Cys	Arg	Gly	Gly	Gly	Cys	Gly	Val	Ser	Thr	Ala	325	330	335
Asn	Gly	Lys	Gly	Val	Lys	Ile	Glu	Phe	Asp	Glu	Asp	Asp	Gly	Pro	Ile	340	345	350
Thr	Val	Ala	Asp	Ala	Trp	Arg	Ala	Leu	Lys	Asn	Pro	Ser	Ile	Gly	Glu	355	360	365
Ser	Ser	Ile	Glu	Gly	Leu	Thr	Ser	Val	Leu	Ser	Thr	Ser	Gly	Ser	Pro	370	375	380
Thr	Asp	Gly	Leu	Ser	Val	Met	Gln	Gly	Pro	Tyr	Ser	Glu	Thr	Ala	Ser	385	390	395
Phe	Ala	Ala	Leu	Ser	Gly	Gly	Thr	Leu	Ser	Gly	Gly	Ile	Leu	Ser	Ser	405	410	415
Gly	Lys	Gly	Lys	Tyr	Ser	Arg	Leu	Glu	Val	Gln	Ala	Asp	Val	Gln	Lys	420	425	430

4215

Glu Ile Phe Pro Lys Asp Thr Ala Ser Leu Gly Ala Ile Ser Asp Asn
 435 440 445

 Ala Ser Thr Arg Ala Met Ala Gly Ser Ile Ile Ser Ser Tyr Asn Pro
 450 455 460

 Gln Asp Arg Glu Cys Asn Asn Met Glu Ile Gln Val Asp Ile Glu Ala
 465 470 475 480

 Lys Pro Ser His Tyr Gln Leu Val Ser Gly Ser Ser Thr Glu Asp Ser
 485 490 495

 Leu His Val His Ala Gln Met Ala Glu Asn Glu Glu Glu Gly Ser Gly
 500 505 510

 Gly Gly Gly Ser Glu Glu Asp Pro Pro Cys Arg His Gln Ser Cys Glu
 515 520 525

 Gln Lys Asp Cys Leu Ala Ser Lys Pro Trp Asp Ile Ser Leu Ala Gln
 530 535 540

 Pro Glu Ser Ile Arg Ser Asp Leu Glu Ser Ser Asp Ala Gln Ser Asp
 545 550 555 560

 Asp Val Pro Asp Ile Thr Ser Asp Glu Cys Gly Ser Pro Arg Ser His
 565 570 575

 Thr Ala Ala Cys Pro Ser Thr Pro Arg Ala Gln Gly Ala Pro Ser Pro
 580 585 590

 Ser Ala His Met Asn Leu Ser Ala Leu Ala Glu Gly Gln Thr Val Leu
 595 600 605

 Lys Pro Glu Gly Gly Glu Ala Arg Val
 610 615

<210> 4640

<211> 155

<212> PRT

<213> Homo sapiens

<400> 4640

Arg Trp Arg Gly Ser Met Ser Gly Ser Met Ala Thr Ala Glu Ala Ser
 1 5 10 15

Gly Ser Asp Gly Lys Gly Gln Glu Val Glu Thr Ser Val Thr Tyr Tyr
 20 25 30

Arg Leu Glu Glu Val Ala Lys Arg Asn Ser Leu Lys Glu Leu Trp Leu

4216

35 40 45
 Val Ile His Gly Arg Val Tyr Asp Val Thr Arg Phe Leu Asn Glu His
 50 55 60
 Pro Gly Gly Glu Glu Val Leu Leu Glu Gln Ala Gly Val Asp Ala Ser
 65 70 75 80
 Glu Ser Phe Glu Asp Val Gly His Ser Ser Asp Ala Arg Glu Met Leu
 85 90 95
 Lys Gln Tyr Tyr Ile Gly Asp Ile His Pro Ser Asp Leu Lys Pro Glu
 100 105 110
 Ser Gly Ser Lys Asp Pro Ser Lys Asn Asp Thr Cys Lys Ser Cys Trp
 115 120 125
 Ala Tyr Trp Ile Leu Pro Ile Ile Gly Ala Val Leu Leu Gly Phe Leu
 130 135 140
 Tyr Arg Tyr Tyr Thr Ser Glu Ser Lys Ser Ser
 145 150 155

<210> 4641
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 4641
 Ser Gln Thr Pro His Tyr Ser Ser Leu Glu Leu Leu Ile Lys Glu Asn
 1 5 10 15
 Trp Lys Tyr Ile Cys Pro Cys Leu Asn Phe Ile Ala Leu Ile Cys Val
 20 25 30
 Ile Ser Leu Leu Thr Gly Arg Gly Thr Ser Phe Phe Pro Tyr
 35 40 45

<210> 4642
 <211> 348
 <212> PRT
 <213> Homo sapiens
 <220>
 <221> SITE
 <222> (99)
 <223> Xaa equals any of the naturally occurring L-amino acids

4217

<220>

<221> SITE

<222> (335)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4642

Val	Glu	Trp	Asn	Arg	Leu	Phe	Ala	Gly	Leu	Leu	Glu	Glu	Gln	Arg	Gln
1				5					10					15	

Arg	Ser	Glu	Asp	Ser	Met	Tyr	Thr	Ala	Ile	Pro	Gln	Ser	Gly	Ser	Pro
			20					25					30		

Phe	Pro	Gly	Ser	Val	Gln	Asp	Pro	Gly	Leu	His	Val	Trp	Arg	Val	Glu
		35					40					45			

Lys	Leu	Lys	Pro	Val	Pro	Val	Ala	Gln	Glu	Asn	Gln	Gly	Val	Phe	Phe
	50					55					60				

Ser	Gly	Asp	Ser	Tyr	Leu	Val	Leu	His	Asn	Gly	Pro	Glu	Glu	Val	Ser
65					70					75					80

His	Leu	His	Leu	Asn	Thr	Leu	Leu	Gly	Glu	Arg	Pro	Val	Gln	His	Arg
				85					90					95	

Glu	Val	Xaa	Gly	Asn	Glu	Ser	Asp	Leu	Phe	Met	Ser	Tyr	Phe	Pro	Arg
			100					105					110		

Gly	Leu	Lys	Tyr	Gln	Glu	Gly	Gly	Val	Glu	Ser	Ala	Phe	His	Lys	Thr
	115						120					125			

Ser	Thr	Gly	Ala	Pro	Ala	Ala	Ile	Lys	Lys	Leu	Tyr	Gln	Val	Lys	Gly
	130					135					140				

Lys	Lys	Asn	Ile	Arg	Ala	Thr	Glu	Arg	Ala	Leu	Asn	Trp	Asp	Ser	Phe
145					150					155					160

Asn	Thr	Gly	Asp	Cys	Phe	Ile	Leu	Asp	Leu	Gly	Gln	Asn	Ile	Phe	Ala
				165					170					175	

Trp	Cys	Gly	Gly	Lys	Ser	Asn	Ile	Leu	Glu	Arg	Asn	Lys	Ala	Arg	Asp
		180						185					190		

Leu	Ala	Leu	Ala	Ile	Arg	Asp	Ser	Glu	Arg	Gln	Gly	Lys	Ala	Gln	Val
	195						200					205			

Glu	Ile	Val	Thr	Asp	Gly	Glu	Glu	Pro	Ala	Glu	Met	Ile	Gln	Val	Leu
	210					215					220				

Gly	Pro	Lys	Pro	Ala	Leu	Lys	Glu	Gly	Asn	Pro	Glu	Glu	Asp	Leu	Thr
225					230					235					240


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Ala Asp Lys Ala Asn Ala Gln Ala Ala Leu Tyr Lys Val Ser Asp
      245                                250                                255

Ala Thr Gly Gln Met Asn Leu Thr Lys Val Ala Asp Ser Ser Pro Phe
      260                                265                                270

Ala Leu Glu Leu Leu Ile Ser Asp Asp Cys Phe Val Leu Asp Asn Gly
      275                                280                                285

Leu Cys Gly Lys Ile Tyr Ile Trp Lys Gly Arg Lys Ala Asn Glu Lys
      290                                295                                300

Glu Arg Gln Ala Ala Leu Gln Val Ala Glu Gly Phe Ile Ser Arg Met
305                                310                                315                                320

Gln Tyr Ala Pro Asn Thr Gln Val Glu Ile Leu Pro Gln Gly Xaa Glu
      325                                330                                335

Ser Pro Ile Phe Lys Gln Phe Phe Lys Asp Trp Lys
      340                                345

<210> 4643
<211> 389
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (376)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4643
Phe Gln Gly Lys Ile Asp Ala Ala Tyr Phe Glu Thr Ser Lys Tyr Leu
  1          5          10          15

Leu Asp Val Leu Asn Lys Lys Tyr Ser Leu Leu Asp His Met Gln Ala
      20          25          30

Met Arg Arg Tyr Leu Leu Leu Gly Gln Gly Asp Phe Ile Arg His Leu
      35          40          45

Met Asp Leu Leu Lys Pro Glu Leu Val Arg Pro Ala Thr Thr Leu Tyr
      50          55          60

Gln His Asn Leu Thr Gly Ile Leu Glu Thr Ala Val Arg Ala Thr Asn
      65          70          75          80

Ala Gln Phe Asp Ser Pro Glu Ile Leu Arg Arg Leu Asp Val Arg Leu

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4219

85										90										95									
Leu	Glu	Val	Ser	Pro	Gly	Asp	Thr	Gly	Trp	Asp	Val	Phe	Ser	Leu	Asp														
			100					105						110															
Tyr	His	Val	Asp	Gly	Pro	Ile	Ala	Thr	Val	Phe	Thr	Arg	Glu	Cys	Met														
			115					120						125															
Ser	His	Tyr	Leu	Arg	Val	Phe	Asn	Phe	Leu	Trp	Arg	Ala	Lys	Arg	Met														
			130					135						140															
Glu	Tyr	Ile	Leu	Thr	Asp	Ile	Arg	Lys	Gly	His	Met	Cys	Asn	Ala	Lys														
145					150							155			160														
Leu	Leu	Arg	Asn	Met	Pro	Glu	Phe	Ser	Gly	Val	Leu	His	Gln	Cys	His														
			165							170						175													
Ile	Leu	Ala	Ser	Glu	Met	Val	His	Phe	Ile	His	Gln	Met	Gln	Tyr	Tyr														
			180							185						190													
Ile	Thr	Phe	Glu	Val	Leu	Glu	Cys	Ser	Trp	Asp	Glu	Leu	Trp	Asn	Lys														
			195				200						205																
Val	Gln	Gln	Ala	Gln	Asp	Leu	Asp	His	Ile	Ile	Ala	Ala	His	Glu	Val														
			210				215							220															
Phe	Leu	Asp	Thr	Ile	Ile	Ser	Arg	Cys	Leu	Leu	Asp	Ser	Asp	Ser	Arg														
225					230						235						240												
Ala	Leu	Leu	Asn	Gln	Leu	Arg	Ala	Val	Phe	Asp	Gln	Ile	Ile	Glu	Leu														
			245							250						255													
Gln	Asn	Ala	Gln	Asp	Ala	Ile	Tyr	Arg	Ala	Ala	Leu	Glu	Glu	Leu	Gln														
			260				265						270																
Arg	Arg	Leu	Gln	Phe	Glu	Glu	Lys	Lys	Lys	Gln	Arg	Glu	Ile	Glu	Gly														
			275				280						285																
Gln	Trp	Gly	Val	Thr	Ala	Ala	Glu	Glu	Glu	Glu	Glu	Asn	Lys	Arg	Ile														
			290				295						300																
Gly	Glu	Phe	Lys	Glu	Ser	Ile	Pro	Lys	Met	Cys	Ser	Gln	Leu	Arg	Ile														
305					310						315			320															
Leu	Thr	His	Phe	Tyr	Gln	Gly	Ile	Val	Gln	Gln	Phe	Leu	Val	Leu	Leu														
			325							330						335													
Thr	Thr	Ser	Ser	Asp	Glu	Ser	Leu	Arg	Phe	Leu	Ser	Phe	Arg	Leu	Asp														
			340							345						350													
Phe	Asn	Glu	His	Tyr	Lys	Ala	Arg	Glu	Pro	Arg	Leu	Arg	Cys	Val	Ser														

4220

355 360 365
 Gly Tyr Gln Gly Ala Ala Gln Xaa Pro His Val Lys Leu Ala Val Leu
 370 375 380

 Pro Gly Ser Cys Gly
 385

 <210> 4644
 <211> 40
 <212> PRT
 <213> Homo sapiens

 <400> 4644
 Phe Cys Pro Ser Arg Leu Cys Phe Leu Pro Phe Leu Cys Ser Arg Ala
 1 5 10 15

 Ala Ile Ser Arg Asp Pro Phe Tyr Glu Met Leu Ala Ala Arg Lys Lys
 20 25 30

 Lys Val Ser Ser Thr Lys Arg His
 35 40

 <210> 4645
 <211> 353
 <212> PRT
 <213> Homo sapiens

 <400> 4645
 Arg Lys Gln Cys Gln Asp Ser Lys Asp Ser Asn His Leu Pro Lys Met
 1 5 10 15

 Ser Leu Ser Ala Phe Thr Leu Phe Leu Ala Leu Ile Gly Gly Thr Ser
 20 25 30

 Gly Gln Tyr Tyr Asp Tyr Asp Phe Pro Leu Ser Ile Tyr Gly Gln Ser
 35 40 45

 Ser Pro Asn Cys Ala Pro Glu Cys Asn Cys Pro Glu Ser Tyr Pro Ser
 50 55 60

 Ala Met Tyr Cys Asp Glu Leu Lys Leu Lys Ser Val Pro Met Val Pro
 65 70 75 80

 Pro Gly Ile Lys Tyr Leu Tyr Leu Arg Asn Asn Gln Ile Asp His Ile
 85 90 95

4221

Asp Glu Lys Ala Phe Glu Asn Val Thr Asp Leu Gln Trp Leu Ile Leu
 100 105 110

Asp His Asn Leu Leu Glu Asn Ser Lys Ile Lys Gly Arg Val Phe Ser
 115 120 125

Lys Leu Lys Gln Leu Lys Lys Leu His Ile Asn His Asn Asn Leu Thr
 130 135 140

Glu Ser Val Gly Pro Leu Pro Lys Ser Leu Glu Asp Leu Gln Leu Thr
 145 150 155 160

His Asn Lys Ile Thr Lys Leu Gly Ser Phe Glu Gly Leu Val Asn Leu
 165 170 175

Thr Phe Ile His Leu Gln His Asn Arg Leu Lys Glu Asp Ala Val Ser
 180 185 190

Ala Ala Phe Lys Gly Leu Lys Ser Leu Glu Tyr Leu Asp Leu Ser Phe
 195 200 205

Asn Gln Ile Ala Arg Leu Pro Ser Gly Leu Pro Val Ser Leu Leu Thr
 210 215 220

Leu Tyr Leu Asp Asn Asn Lys Ile Ser Asn Ile Pro Asp Glu Tyr Phe
 225 230 235 240

Lys Arg Phe Asn Ala Leu Gln Tyr Leu Arg Leu Ser His Asn Glu Leu
 245 250 255

Ala Asp Ser Gly Ile Pro Gly Asn Ser Phe Asn Val Ser Ser Leu Val
 260 265 270

Glu Leu Asp Leu Ser Tyr Asn Lys Leu Lys Asn Ile Pro Thr Val Asn
 275 280 285

Glu Asn Leu Glu Asn Tyr Tyr Leu Glu Val Asn Gln Leu Glu Lys Phe
 290 295 300

Asp Ile Lys Ser Phe Cys Lys Ile Leu Gly Pro Leu Ser Tyr Ser Lys
 305 310 315 320

Ile Lys His Leu Arg Leu Asp Gly Asn Arg Ile Ser Glu Thr Ser Leu
 325 330 335

Pro Pro Asp Met Tyr Glu Cys Leu Arg Val Ala Asn Glu Val Thr Leu
 340 345 350

Asn

4222

<210> 4646

<211> 54

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4646

Glu	Glu	Gln	Lys	Gly	Glu	Ile	Asn	Gly	Lys	Thr	Lys	Asn	Thr	Gln	Ile
1				5					10					15	

Cys	Gly	Phe	Gly	Xaa	Asn	Glu	Thr	Arg	Phe	Ile	Tyr	Leu	Lys	Lys	Cys
			20					25					30		

Trp	Cys	Ser	Asn	Thr	Lys	His	Tyr	Phe	His	Xaa	Glu	Lys	Ile	Thr	Tyr
		35					40					45			

Leu	Leu	Pro	Ser	Val	Leu
					50

<210> 4647

<211> 38

<212> PRT

<213> Homo sapiens

<400> 4647

Asn	Met	Tyr	Ser	Gly	Arg	Leu	Gln	Trp	Leu	Thr	Pro	Val	Ile	Pro	Ala
1				5					10					15	

Leu	Trp	Gln	Ala	Glu	Met	Gly	Gly	Ser	Phe	Glu	Val	Arg	Ser	Leu	Arg
			20					25					30		

Pro	Ala	Trp	Pro	Thr	Trp
					35

<210> 4648

<211> 515

4223

<212> PRT

<213> Homo sapiens

<400> 4648

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Gly Glu Trp Pro Lys Ser Leu Arg Ile Pro Glu Gly Pro Ile Asp Gln
 1             5             10             15

Gly Pro Ala Ile Gly Arg Val Arg Val Leu Glu Glu Gln Leu Val Lys
          20             25             30

Ala Lys Glu Gln Ile Glu Asn Tyr Lys Lys Gln Thr Arg Asn Gly Leu
          35             40             45

Gly Lys Asp His Glu Ile Leu Arg Arg Arg Ile Glu Asn Gly Ala Lys
          50             55             60

Glu Leu Trp Phe Phe Leu Gln Ser Glu Leu Lys Lys Leu Lys Asn Leu
          65             70             75             80

Glu Gly Asn Glu Leu Gln Arg His Ala Asp Glu Phe Leu Leu Asp Leu
          85             90             95

Gly His His Glu Arg Ser Ile Met Thr Asp Leu Tyr Tyr Leu Ser Gln
          100            105            110

Thr Asp Gly Ala Gly Asp Trp Arg Glu Lys Glu Ala Lys Asp Leu Thr
          115            120            125

Glu Leu Val Gln Arg Arg Ile Thr Tyr Leu Gln Asn Pro Lys Asp Cys
          130            135            140

Ser Lys Ala Lys Lys Leu Val Cys Asn Ile Asn Lys Gly Cys Gly Tyr
          145            150            155            160

Gly Cys Gln Leu His His Val Val Tyr Cys Phe Met Ile Ala Tyr Gly
          165            170            175

Thr Gln Arg Thr Leu Ile Leu Glu Ser Gln Asn Trp Arg Tyr Ala Thr
          180            185            190

Gly Gly Trp Glu Thr Val Phe Arg Pro Val Ser Glu Thr Cys Thr Asp
          195            200            205

Arg Ser Gly Ile Ser Thr Gly His Trp Ser Gly Glu Val Lys Asp Lys
          210            215            220

Asn Val Gln Val Val Glu Leu Pro Ile Val Asp Ser Leu His Pro Arg
          225            230            235            240

Pro Pro Tyr Leu Pro Leu Ala Val Pro Glu Asp Leu Ala Asp Arg Leu
          245            250            255

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4224

Val Arg Val His Gly Asp Pro Ala Val Trp Trp Val Ser Gln Phe Val
 260 265 270
 Lys Tyr Leu Ile Arg Pro Gln Pro Trp Leu Glu Lys Glu Ile Glu Glu
 275 280 285
 Ala Thr Lys Lys Leu Gly Phe Lys His Pro Val Ile Gly Val His Val
 290 295 300
 Arg Arg Thr Asp Lys Val Gly Thr Glu Ala Ala Phe His Pro Ile Glu
 305 310 315 320
 Glu Tyr Met Val His Val Glu Glu His Phe Gln Leu Leu Ala Arg Arg
 325 330 335
 Met Gln Val Asp Lys Lys Arg Val Tyr Leu Ala Thr Asp Asp Pro Ser
 340 345 350
 Leu Leu Lys Glu Ala Lys Thr Lys Tyr Pro Asn Tyr Glu Phe Ile Ser
 355 360 365
 Asp Asn Ser Ile Ser Trp Ser Ala Gly Leu His Asn Arg Tyr Thr Glu
 370 375 380
 Asn Ser Leu Arg Gly Val Ile Leu Asp Ile His Phe Leu Ser Gln Ala
 385 390 395 400
 Asp Phe Leu Val Cys Thr Phe Ser Ser Gln Val Cys Arg Val Ala Tyr
 405 410 415
 Glu Ile Met Gln Thr Leu His Pro Asp Ala Ser Ala Asn Phe His Ser
 420 425 430
 Leu Asp Asp Ile Tyr Tyr Phe Gly Gly Gln Asn Ala His Asn Gln Ile
 435 440 445
 Ala Ile Tyr Ala His Gln Pro Arg Thr Ala Asp Glu Ile Pro Met Glu
 450 455 460
 Pro Gly Asp Ile Ile Gly Val Ala Gly Asn His Trp Asp Gly Tyr Ser
 465 470 475 480
 Lys Gly Val Asn Arg Lys Leu Gly Arg Thr Gly Leu Tyr Pro Ser Tyr
 485 490 495
 Lys Val Arg Glu Lys Ile Glu Thr Val Lys Tyr Pro Thr Tyr Pro Glu
 500 505 510
 Ala Glu Lys
 515

4225

<210> 4649

<211> 47

<212> PRT

<213> Homo sapiens

<400> 4649

Ala Ala Gly Val Pro Val Phe Asp Phe Ser Val Asn Met Leu Phe Val
1 5 10 15

His Ile Ser Thr Trp Trp Arg Pro Tyr Ser Leu Phe His Leu Pro Asn
20 25 30

Asn Gly Lys Asn Ile Lys Val Asn Gln Cys Ala Leu Gly Ile Gln
35 40 45

<210> 4650

<211> 38

<212> PRT

<213> Homo sapiens

<400> 4650

Cys Ile Val Ile Ile Tyr Asp Arg Ser Ser His Phe Phe Leu Leu Lys
1 5 10 15

Lys Ile Thr Leu Ser Pro Val Gly Asn Gly Ile Leu Trp Ala Phe Lys
20 25 30

Arg Lys Phe Tyr Glu Thr
35

<210> 4651

<211> 171

<212> PRT

<213> Homo sapiens

<400> 4651

Gly Thr Ser Tyr Gly Leu Pro Arg Tyr Arg Trp Leu Thr His Ala Trp
1 5 10 15

Asn Phe Phe Gln Arg Glu Phe Lys Cys Cys Gly Val Val Tyr Phe Thr
20 25 30

Asp Trp Leu Glu Met Thr Glu Met Asp Trp Pro Pro Asp Ser Cys Cys
35 40 45

4226

Val Arg Glu Phe Pro Gly Cys Ser Lys Gln Ala His Gln Glu Asp Leu
 50 55 60
 Ser Asp Leu Tyr Gln Glu Gly Cys Gly Lys Lys Met Tyr Ser Phe Leu
 65 70 75 80
 Arg Gly Thr Lys Gln Leu Gln Val Leu Arg Phe Leu Gly Ile Ser Ile
 85 90 95
 Gly Val Thr Gln Ile Leu Ala Met Ile Leu Thr Ile Thr Leu Leu Trp
 100 105 110
 Ala Leu Tyr Tyr Asp Arg Arg Glu Pro Gly Thr Asp Gln Met Met Ser
 115 120 125
 Leu Lys Asn Asp Asn Ser Gln His Leu Ser Cys Pro Ser Val Glu Leu
 130 135 140
 Leu Lys Pro Ser Leu Ser Arg Ile Phe Glu His Thr Ser Met Ala Asn
 145 150 155 160
 Ser Phe Asn Thr His Phe Glu Met Glu Glu Leu
 165 170

<210> 4652

<211> 200

<212> PRT

<213> Homo sapiens

<400> 4652

Ser Leu Gly Glu Leu Pro Thr Asp Pro Ser Ser Asp Glu Pro Val Phe
 1 5 10 15
 His Ile Ser His Ile Asp Arg Val Tyr Thr Leu Arg Thr Asp Asn Ile
 20 25 30
 Asn Glu Arg Thr Thr Trp Val Gln Lys Ile Lys Ala Ala Ser Glu Gln
 35 40 45
 Tyr Ile Asp Thr Glu Lys Lys Lys Arg Glu Lys Ala Tyr Gln Ala Arg
 50 55 60
 Ser Gln Lys Thr Ser Gly Ile Gly Arg Leu Met Val His Val Ile Glu
 65 70 75 80
 Ala Thr Glu Leu Lys Ala Cys Lys Pro Asn Gly Lys Ser Asn Pro Tyr
 85 90 95

4227

Cys Glu Ile Ser Met Gly Ser Gln Ser Tyr Thr Thr Arg Thr Ile Gln
 100 105 110
 Asp Thr Leu Asn Pro Lys Trp Asn Phe Asn Cys Gln Phe Phe Ile Lys
 115 120 125
 Asp Leu Tyr Gln Asp Val Leu Cys Leu Thr Leu Phe Asp Arg Asp Gln
 130 135 140
 Phe Ser Pro Asp Asp Phe Leu Gly Arg Thr Glu Ile Pro Val Ala Lys
 145 150 155 160
 Ile Arg Thr Glu Gln Glu Ser Lys Gly Pro Met Thr Arg Arg Leu Leu
 165 170 175
 Leu His Glu Val Pro Thr Gly Glu Val Trp Val Arg Phe Asp Leu Gln
 180 185 190
 Leu Phe Glu Gln Lys Thr Leu Leu
 195 200

<210> 4653

<211> 91

<212> PRT

<213> Homo sapiens

<400> 4653

Val Ser Pro Gly Gly Gln Gln Gly Leu His Phe Ser Glu Gly Leu Glu
 1 5 10 15
 Gly Leu Val Glu Leu Leu Gly Gln Arg Ser Arg Ser Arg Glu Asn Ile
 20 25 30
 Arg Pro Ser Asp Leu Ser Ser Ala Leu Arg Ala Leu Pro Glu Ser Ser
 35 40 45
 Ser Arg Gly Leu Gln Ser Leu Arg Lys Pro Ser Gln Arg Ala Ala Pro
 50 55 60
 Thr Ser Gln Ala Val Cys Thr Ser Pro Cys Tyr Ala Leu Leu Cys Asn
 65 70 75 80
 Ile Leu Gln Gln Ser Ala Val His Gly Val Cys
 85 90

<210> 4654

<211> 44

4228

<212> PRT

<213> Homo sapiens

<400> 4654

Ser Gln His Phe Ala Arg Pro Arg Arg Val Asp His Leu Arg Ser Gly
 1 5 10 15

Val Arg Asp Gln Pro Asp Gln His Gly Glu Thr Pro Ser Leu Leu Lys
 20 25 30

Ile Gln Lys Leu Ala Trp His Gly Gly Ala Cys Leu
 35 40

<210> 4655

<211> 76

<212> PRT

<213> Homo sapiens

<400> 4655

Thr Leu Arg Val Arg Thr Gly Ser Tyr Ser Ser Leu Cys Ala Phe Leu
 1 5 10 15

Met Leu Gln Arg Ile Tyr His Leu Met Glu Glu Asn Ile Cys Lys Leu
 20 25 30

Ala Pro Tyr Gln Ala Pro Ser Thr Tyr Ser Thr His Leu Asn Phe Glu
 35 40 45

Cys Arg Ile Phe Lys Leu Gln Pro His Ile Leu Arg Ser Arg Lys Asn
 50 55 60

Leu Met Gly Ile Asn Leu His Pro Leu Ala Leu Pro
 65 70 75

<210> 4656

<211> 284

<212> PRT

<213> Homo sapiens

<400> 4656

Ala His Ala Ser Thr His Ala Ser Gly Ser Val Ser Pro Cys Arg Gln
 1 5 10 15

Leu His Phe Pro Leu Phe Leu Phe Pro Phe Pro Ser Arg Pro Arg Ala
 20 25 30

Pro Pro Ser Leu Val Gly Trp Ser Arg Ser Pro Cys Ala Phe Ser Leu

4229

35	40	45
Leu Gly Ser Cys Val Arg Ala Cys Pro Ala Met Asn Glu Glu Tyr Asp		
50	55	60
Val Ile Val Leu Gly Thr Gly Leu Thr Glu Cys Ile Leu Ser Gly Ile		
65	70	75
Met Ser Val Asn Gly Lys Lys Val Leu His Met Asp Arg Asn Pro Tyr		
85	90	95
Tyr Gly Gly Glu Ser Ala Ser Ile Thr Pro Leu Glu Asp Leu Tyr Lys		
100	105	110
Arg Phe Lys Ile Pro Gly Ser Pro Pro Glu Ser Met Gly Arg Gly Arg		
115	120	125
Asp Trp Asn Val Asp Leu Ile Pro Lys Phe Leu Met Ala Asn Gly Gln		
130	135	140
Leu Val Lys Met Leu Leu Tyr Thr Glu Val Thr Arg Tyr Leu Asp Phe		
145	150	155
Lys Val Thr Glu Gly Ser Phe Val Tyr Lys Gly Gly Lys Ile Tyr Lys		
165	170	175
Val Pro Ser Thr Glu Ala Glu Ala Leu Ala Ser Ser Leu Met Gly Leu		
180	185	190
Phe Glu Lys Arg Arg Phe Arg Lys Phe Leu Val Tyr Val Ala Asn Phe		
195	200	205
Asp Glu Lys Asp Pro Arg Thr Phe Glu Gly Ile Asp Pro Lys Lys Thr		
210	215	220
Thr Met Arg Asp Val Tyr Lys Lys Phe Asp Leu Gly Gln Asp Val Ile		
225	230	235
Asp Phe Thr Gly His Ala Leu Ala Leu Tyr Arg Thr Asp Asp Tyr Leu		
245	250	255
Asp Gln Pro Cys Tyr Glu Thr Ile Asn Arg Ile Lys Leu Tyr Tyr Cys		
260	265	270
Gly Lys Thr Thr Val Leu Ile Lys Asp Leu His Ser		
275	280	

<210> 4657

<211> 125

4230

<212> PRT

<213> Homo sapiens

<400> 4657

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Asp Gly Val Leu Leu Leu Pro Arg Leu Glu Trp Ser Ala Trp Cys Asp
 1             5             10             15

Leu Gly Ser Leu Gln Thr Pro Pro Pro Gly Phe Lys Arg Phe Ser Trp
      20             25             30

Pro Ser Leu Leu Ser Ser Trp Asp Tyr Arg Cys Val Pro Pro Cys Pro
      35             40             45

Ala Asn Phe Cys Val Phe Ser Arg Asp Gly Val Ser Pro Cys Trp Pro
      50             55             60

Ala Gly Leu Glu Leu Leu Thr Ser Gly Tyr Met Pro Thr Ser Thr Ser
      65             70             75             80

Gln Ser Ala Gly Ile Thr Gly Met Ser His Cys Ala Gln Pro Gly Ile
      85             90             95

Asp Asn Leu Tyr Ser Asp Asn Leu Leu Trp Leu Phe Asn Ile Pro Gln
      100            105            110

Gly Ala Leu Lys Ser Lys His Ser Arg Val Cys Ser Phe
      115            120            125

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<210> 4658

<211> 85

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4658

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Trp Arg Gly Val Gly Xaa Ala Arg Lys Lys Glu Asn Ser Pro Leu Gly
 1             5             10             15

Lys Lys Glu Glu Glu His Trp Ile Leu Thr Phe Trp Ile Leu Thr Leu
      20             25             30

Gly Cys Lys Thr Tyr Leu Pro Leu Ser Arg Leu Pro Ser Pro Ser Thr
      35             40             45

Leu Asn Val Leu Leu Ser Phe Ser Val Ser Ala Pro Ser Ser Pro Phe

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4231

50 55 60
 Pro Leu Pro Pro Pro His Thr Leu His Pro Leu Cys Pro Gly Pro Ser
 65 70 75 80
 Glu Gly His Cys Arg
 85

<210> 4659

<211> 43

<212> PRT

<213> Homo sapiens

<400> 4659

Val Asp Pro Arg Val Arg Pro Arg Val Arg Pro Arg Val Arg Pro Arg
 1 5 10 15
 Val Arg Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
 20 25 30
 Lys Lys Lys Lys Lys Lys Lys Lys Lys Gly Gly
 35 40

<210> 4660

<211> 86

<212> PRT

<213> Homo sapiens

<400> 4660

Asp Ile Thr Ala Lys Leu Gly Ile Gly Glu Met Ala Glu Thr Asp Pro
 1 5 10 15
 Lys Thr Val Gln Asp Leu Thr Ser Val Val Gln Thr Leu Leu Gln Gln
 20 25 30
 Met Gln Asp Lys Phe Gln Thr Met Ser Asp Gln Ile Ile Gly Arg Ile
 35 40 45
 Asp Asp Met Ser Ser Arg Ile Asp Asp Leu Glu Lys Asn Ile Ala Asp
 50 55 60
 Leu Met Thr Gln Ala Gly Val Glu Glu Leu Glu Ser Glu Asn Lys Ile
 65 70 75 80
 Pro Ala Thr Gln Lys Ser
 85

4232

<210> 4661
 <211> 111
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (50)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (58)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (59)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 4661
 Arg Arg Glu Gly Cys Arg Arg Pro Arg Gly Ser Arg Ala Gly Gly Ala
 1 5 10 15
 Ala Ala Ala Ala Met Gln Glu Ile Ile Ala Ser Val Asp His Ile Lys
 20 25 30
 Phe Asp Leu Glu Ile Ala Val Glu Gln Gln Leu Gly Ala Gln Pro Leu
 35 40 45
 Pro Xaa Gln Thr Gln Pro Pro Ala Lys Xaa Xaa Thr Pro Gln Val Ile
 50 55 60
 Gly Val Met Gln Ser Gln Asn Ser Ser Ala Gly Asn Arg Gly Pro Arg
 65 70 75 80
 Pro Leu Glu Gln Val Thr Cys Tyr Lys Cys Gly Glu Lys Gly His Tyr
 85 90 95
 Ala Asn Arg Cys Thr Lys Gly His Leu Ala Phe Leu Ser Gly Gln
 100 105 110

<210> 4662
 <211> 69
 <212> PRT
 <213> Homo sapiens

4233

<400> 4662

Ser His Phe Val Cys Cys Val Lys Gln Lys Ala Leu Met Lys Lys Gln
 1 5 10 15
 Lys Val Met Tyr Val Tyr Glu Lys Ile Asn Cys Thr Ile Ser Phe Gln
 20 25 30
 Tyr Val Leu Leu Tyr Ile Leu Val Leu Phe Thr Phe Ser Ser Leu Leu
 35 40 45
 Arg Gly Cys Glu Leu Tyr Ser Phe Gln Leu Val Thr His Ile Arg Glu
 50 55 60
 Glu Ile Arg Glu Tyr
 65

<210> 4663

<211> 212

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (172)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (205)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4663

Gly Ala Val Ala Ala Arg Ala Ile Arg Leu Thr His Leu Ala Pro
 1 5 10 15
 Val Pro Gln Asp Gln Ser Gly Ala Gly Arg Glu Gly Glu Glu Ala Arg
 20 25 30
 Ala Arg Arg Ala Arg Val Arg Ile Gly Ala Gly Arg Ser Arg Asp Leu
 35 40 45
 Gly Ser Gly Arg Gly Gly Cys Glu Arg Ala Ala Asn Arg Ala Gly Gly
 50 55 60
 Gly Arg Ala His His Gly Gly Glu Thr Arg Asp Gln Leu Thr Val Tyr
 65 70 75 80
 Leu Gly Lys Arg Asp Phe Val Asp His Leu Asp Lys Val Asp Pro Val
 85 90 95

4234

Asp Gly Val Val Leu Val Asp Pro Asp Tyr Leu Lys Asp Arg Lys Val
 100 105 110
 Phe Val Thr Leu Thr Cys Ala Phe Arg Tyr Gly Arg Glu Asp Leu Asp
 115 120 125
 Val Leu Gly Leu Ser Phe Arg Lys Asp Leu Phe Ile Ala Thr Tyr Gln
 130 135 140
 Ala Phe Pro Pro Val Pro Asn Pro Pro Arg Pro Pro Thr Arg Leu Gln
 145 150 155 160
 Asp Arg Leu Leu Arg Lys Leu Gly Gln His Ala Xaa Pro Phe Phe Phe
 165 170 175
 Thr Ile Pro Gln Asn Leu Pro Cys Ser Val Thr Leu Gln Pro Gly Pro
 180 185 190
 Glu Asp Thr Gly Lys Ala Cys Gly Val Asp Phe Glu Xaa Glu Pro Ser
 195 200 205
 Val Leu Asn His
 210

<210> 4664
 <211> 137
 <212> PRT
 <213> Homo sapiens

<400> 4664
 Ala Ala Asn Lys Lys Asn Glu Ala Arg Leu Arg Ile Val Lys Thr Leu
 1 5 10 15
 Glu Asp Ile Asp Leu Gly Pro Thr Glu Lys Cys Val Arg Val Asn Ser
 20 25 30
 Val Ser Ser Gly Leu Ala Glu Glu Asp Leu Glu Thr Leu Leu Gln Ser
 35 40 45
 Arg Val Leu Pro Ser Ser Leu Met Leu Pro Lys Val Glu Ser Pro Glu
 50 55 60
 Glu Ile Gln Trp Phe Ala Asp Lys Phe Ser Phe His Leu Lys Gly Arg
 65 70 75 80
 Lys Leu Glu Gln Pro Met Asn Leu Ile Pro Phe Val Glu Thr Ala Met
 85 90 95

4235

Gly Leu Leu Asn Phe Lys Ala Val Cys Glu Glu Thr Leu Lys Val Gly
 100 105 110

Pro Gln Val Gly Leu Phe Leu Asp Ala Val Val Phe Gly Arg Arg Arg
 115 120 125

Leu Ser Ser Gln His Arg Cys Asn Lys
 130 135

<210> 4665

<211> 197

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (168)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (172)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4665

Val Ile Cys Met Trp Gln Gly Cys Ala Val Glu Arg Pro Val Gly Arg
 1 5 10 15

Met Thr Ser Gln Thr Pro Leu Pro Gln Ser Pro Arg Pro Arg Arg Pro
 20 25 30

Thr Met Ser Thr Val Val Glu Leu Asn Val Gly Gly Glu Phe His Thr
 35 40 45

Thr Thr Leu Gly Thr Leu Arg Lys Phe Pro Gly Ser Lys Leu Ala Glu
 50 55 60

Met Phe Ser Ser Leu Ala Lys Ala Ser Thr Asp Ala Glu Gly Arg Phe
 65 70 75 80

Phe Ile Asp Arg Pro Ser Thr Tyr Phe Arg Pro Ile Leu Asp Tyr Leu
 85 90 95

Arg Thr Gly Gln Val Pro Thr Gln His Ile Pro Glu Val Tyr Arg Glu
 100 105 110

Ala Gln Phe Tyr Glu Ile Lys Pro Leu Val Lys Leu Leu Glu Asp Met
 115 120 125

4236

Pro Gln Ile Phe Gly Glu Gln Val Ser Arg Lys Gln Phe Leu Leu Gln
 130 135 140

Val Pro Gly Tyr Ser Glu Asn Leu Glu Leu Met Val Arg Leu Ala Arg
 145 150 155 160

Ala Glu Ala Ile Thr Ala Arg Xaa Ser Ser Val Xaa Val Cys Leu Val
 165 170 175

Glu Thr Glu Glu Gln Asp Ala Tyr Tyr Ser Glu Val Leu Cys Phe Ser
 180 185 190

Cys Arg Ile Arg Arg
 195

<210> 4666

<211> 293

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4666

Gln Ser Lys Met Gly Ala Tyr His Thr Ile Glu Leu Glu Pro Asn Arg
 1 5 10 15

Gln Phe Thr Leu Ala Lys Lys Gln Trp Asp Ser Val Val Leu Glu Arg
 20 25 30

Ile Glu Gln Ala Cys Xaa Pro Ala Trp Ser Ala Asp Val Ala Ala Val
 35 40 45

Val Met Gln Glu Gly Leu Ala His Ile Cys Leu Val Thr Pro Ser Met
 50 55 60

Thr Leu Thr Arg Ala Lys Val Glu Val Asn Ile Pro Arg Lys Arg Lys
 65 70 75 80

Gly Asn Cys Ser Gln His Asp Arg Ala Leu Glu Arg Phe Tyr Glu Gln
 85 90 95

Val Val Gln Ala Ile Gln Arg His Ile His Phe Asp Val Val Lys Cys
 100 105 110

Ile Leu Val Ala Ser Pro Gly Phe Val Arg Glu Gln Phe Cys Asp Tyr
 115 120 125

4237

Met Phe Gln Gln Ala Val Lys Thr Asp Asn Lys Leu Leu Leu Glu Asn
 130 135 140
 Arg Ser Lys Phe Leu Gln Val His Ala Ser Ser Gly His Lys Tyr Ser
 145 150 155 160
 Leu Lys Glu Ala Leu Cys Asp Pro Thr Val Ala Ser Arg Leu Ser Asp
 165 170 175
 Thr Lys Ala Ala Gly Glu Val Lys Ala Leu Asp Asp Phe Tyr Lys Met
 180 185 190
 Leu Gln His Glu Pro Asp Arg Ala Phe Tyr Gly Leu Lys Gln Val Glu
 195 200 205
 Lys Ala Asn Glu Ala Met Ala Ile Asp Thr Leu Leu Ile Ser Asp Glu
 210 215 220
 Leu Phe Arg His Gln Asp Val Ala Thr Arg Ser Arg Tyr Val Arg Leu
 225 230 235 240
 Val Asp Ser Val Lys Glu Asn Ala Gly Thr Val Arg Ile Phe Ser Ser
 245 250 255
 Leu His Val Ser Gly Glu Gln Leu Ser Gln Leu Thr Gly Val Ala Ala
 260 265 270
 Ile Leu Arg Phe Pro Val Pro Glu Leu Ser Asp Gln Glu Gly Asp Ser
 275 280 285
 Ser Ser Glu Glu Asp
 290

<210> 4667

<211> 55

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

4238

<400> 4667

Pro Ala Ser Thr Ala Trp Val Pro Pro Pro Gly Xaa Asp Pro Gly Pro
 1 5 10 15

Arg Ser Leu Ala Pro Gly Trp Asp Pro Ala Pro Gly Ser Tyr Xaa Arg
 20 25 30

Gly Ser Gln Leu Arg Arg Pro Ala Gln Pro Asp Ser Leu Lys Ala Gln
 35 40 45

Arg Ala Gly Ser Arg Pro Pro
 50 55

<210> 4668

<211> 136

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4668

Val Asp Pro Arg Val Xaa Pro Arg Ser Gly Gly Glu Lys Pro Gly Gly
 1 5 10 15

Leu Gly Ala Pro Ala Gly Ile Gly Ser Arg Leu Gly Cys Glu Arg Phe
 20 25 30

Ser Arg Ser Arg Glu Ile Leu Gln Ala Ile Thr Met Ser Thr Asp Thr
 35 40 45

Gly Val Ser Leu Pro Ser Tyr Glu Glu Asp Gln Gly Ser Lys Leu Ile
 50 55 60

Arg Lys Ala Lys Glu Ala Pro Phe Val Pro Val Gly Ile Ala Gly Phe
 65 70 75 80

Ala Ala Ile Val Ala Tyr Gly Leu Tyr Lys Leu Lys Ser Arg Gly Asn
 85 90 95

Thr Lys Met Ser Ile His Leu Ile His Met Arg Val Ala Ala Gln Gly
 100 105 110

Phe Val Val Gly Ala Met Thr Val Gly Met Gly Tyr Ser Met Tyr Arg
 115 120 125

Glu Phe Trp Ala Lys Pro Lys Pro

4239

130

135

<210> 4669

<211> 122

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (76)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4669

Thr	Ala	Ser	Trp	Ser	Pro	Ala	Pro	Val	Pro	Ser	Ser	Leu	Glu	Arg	Leu
1				5					10					15	

Phe	Ser	Pro	Asp	Gly	Thr	Phe	Pro	Ser	Arg	Arg	Phe	Leu	Gly	Leu	Trp
			20					25					30		

Leu	Phe	Phe	Ser	Cys	Ala	Arg	Leu	Ile	Gly	His	Leu	Leu	Ala	Ser	Ile
		35					40					45			

Ser	Val	Val	Leu	Leu	Pro	His	Phe	Leu	Phe	Cys	Cys	Phe	Ser	Val	Leu
	50					55					60				

Ser	Lys	Tyr	Leu	Leu	Cys	Ser	Trp	Leu	Pro	Phe	Xaa	Arg	Gln	Val	Phe
65					70					75					80

Ser	Phe	Pro	Leu	Ala	Leu	Leu	Leu	Ile	Trp	Leu	Leu	Pro	Thr	Lys	Ala
				85					90					95	

Cys	Ser	Val	Arg	Ile	Ser	Trp	Phe	Ser	Thr	Cys	Gln	Asn	Leu	Leu	Gln
			100					105					110		

Pro	Gln	Phe	Leu	Gly	Leu	Asn	Leu	Tyr	Val
	115						120		

<210> 4670

<211> 439

<212> PRT

<213> Homo sapiens

<400> 4670

Gly	Gly	Arg	Gly	Gln	Glu	Pro	Gln	Met	Arg	Ala	Phe	Leu	Ala	Cys	Met
1				5					10					15	

Arg	Ser	Asp	Thr	Pro	Ala	Met	Leu	Asn	Pro	Ala	Asn	Val	Pro	Thr	His
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4240

	20		25		30
Leu Met Val Leu Cys Cys Val Leu Arg Tyr Met Val Gln Trp Pro Gly	35	40	45		
Ala Arg Ile Leu Arg Arg Gln Glu Leu Asp Ala Phe Leu Ala Gln Ala	50	55	60		
Leu Ser Pro Lys Leu Tyr Glu Pro Asp Gln Leu Gln Glu Leu Lys Ile	65	70	75	80	
Glu Asn Leu Asp Pro Arg Gly Ile Gln Leu Ser Ala Leu Phe Met Ser	85	90	95		
Gly Val Asp Met Ala Leu Phe Ala Asn Asp Ala Cys Gly Gln Pro Ile	100	105	110		
Pro Trp Glu His Cys Cys Pro Trp Met Tyr Phe Asp Gly Lys Leu Phe	115	120	125		
Gln Ser Lys Leu Leu Lys Ala Ser Arg Glu Lys Thr Pro Leu Ile Asp	130	135	140		
Leu Cys Asp Gly Gln Ala Asp Gln Ala Ala Lys Val Glu Lys Met Arg	145	150	155	160	
Gln Ser Val Leu Glu Gly Leu Ser Phe Ser Arg Gln Ser His Thr Leu	165	170	175		
Pro Phe Pro Pro Pro Ala Leu Pro Phe Tyr Pro Ala Ser Ala Tyr	180	185	190		
Pro Arg His Phe Gly Pro Val Pro Pro Ser Gln Gly Arg Gly Arg Gly	195	200	205		
Phe Ala Gly Val Cys Gly Phe Gly Gly Pro Tyr Gly Glu Thr Val Ala	210	215	220		
Thr Gly Pro Tyr Arg Ala Phe Arg Val Ala Ala Ala Ser Gly His Cys	225	230	235	240	
Gly Ala Phe Ser Gly Ser Asp Ser Ser Arg Thr Ser Lys Ser Gln Gly	245	250	255		
Gly Val Gln Pro Ile Pro Ser Gln Gly Gly Lys Leu Glu Ile Ala Gly	260	265	270		
Thr Val Val Gly His Trp Ala Gly Ser Arg Arg Gly Arg Gly Gly Arg	275	280	285		
Gly Pro Phe Pro Leu Gln Val Val Ser Val Gly Gly Pro Ala Arg Gly					

4241

290	295	300
Arg Pro Arg Gly Val Ile Ser Thr Pro Val Ile Arg Thr Phe Gly Arg		
305	310	315 320
Gly Gly Arg Tyr Tyr Gly Arg Gly Tyr Lys Asn Gln Ala Ala Ile Gln		
	325	330 335
Gly Arg Pro Pro Tyr Ala Ala Ser Ala Glu Glu Val Ala Lys Glu Leu		
	340	345 350
Lys Ser Lys Ser Gly Glu Ser Lys Ser Ser Ala Met Ser Ser Asp Gly		
	355	360 365
Ser Leu Ala Glu Asn Gly Val Met Ala Glu Glu Lys Pro Ala Pro Gln		
	370	375 380
Met Asn Gly Ser Thr Gly Asp Ala Arg Ala Pro Ser His Ser Glu Ser		
	385	390 395 400
Ala Leu Asn Asn Asp Ser Lys Thr Cys Asn Thr Asn Pro His Leu Asn		
	405	410 415
Ala Leu Ser Thr Asp Ser Ala Cys Arg Arg Glu Ala Ala Leu Glu Ala		
	420	425 430
Ala Val Leu Asn Lys Glu Glu		
	435	

<210> 4671

<211> 102

<212> PRT

<213> Homo sapiens

<400> 4671

Asn Arg Lys Val Cys Arg Lys Ile Ala Ala His Gly Leu Cys Arg Lys
1 5 10 15
Glu Ser Leu Gln Asn Leu Leu His Ser Ser Arg Lys Leu Ser Leu Gln
20 25 30
Val Leu Asn Phe Val His Ser Phe Gln Glu Gly Ala Ser Ile Leu Asp
35 40 45
Ile His Thr Glu Pro Ser Phe Ser Ser Leu Leu Ser Gln Ser Ser Tyr
50 55 60
Ala Asp Met Gly Val Pro Leu Pro Ala Lys Asn Leu Ile Phe Lys Asp
65 70 75 80

4242

Gly Val Leu Ser Glu Trp Ser Gly Arg Ser Pro Ser Ser Leu Leu Ile
85 90 95

Ala Asn Leu His Leu Gln
100

<210> 4672

<211> 631

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

4243

<222> (341)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (357)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4672

Lys	Asp	Glu	Glu	Glu	Pro	Pro	Ser	Met	Thr	Gln	Leu	Leu	Arg	Arg
1				5				10					15	

Xaa	Xaa	Leu	Ser	Cys	His	Arg	Pro	Gly	Met	Trp	Ser	Val	His	Cys	Arg
			20					25					30		

Ser	Lys	Glu	Xaa	Xaa	Asp	Met	Met	Gly	Arg	Asn	Gln	Thr	Ala	Val	Arg
		35					40					45			

Glu	Glu	Met	Xaa	Leu	Leu	Ala	Asn	Tyr	Leu	Asp	Ser	Met	Tyr	Xaa	Met
	50					55					60				

Leu	Asn	Ile	Arg	Ile	Val	Leu	Val	Gly	Leu	Glu	Ile	Trp	Thr	Asn	Gly
65					70					75					80

Asn	Leu	Ile	Asn	Ile	Val	Gly	Gly	Ala	Gly	Asp	Val	Leu	Gly	Asn	Xaa
				85					90					95	

Val	Gln	Trp	Arg	Glu	Lys	Phe	Leu	Ile	Thr	Arg	Arg	Arg	His	Asp	Ser
			100					105					110		

Ala	Gln	Leu	Val	Leu	Lys	Lys	Gly	Phe	Gly	Gly	Thr	Ala	Gly	Met	Ala
		115					120					125			

Phe	Val	Gly	Thr	Val	Cys	Ser	Arg	Ser	His	Ala	Gly	Gly	Ile	Asn	Val
130						135					140				

Phe	Gly	Gln	Ile	Thr	Val	Glu	Thr	Phe	Ala	Ser	Ile	Val	Ala	His	Glu
145					150					155					160

Leu	Gly	His	Asn	Leu	Gly	Met	Asn	His	Asp	Asp	Gly	Arg	Asp	Cys	Ser
				165					170					175	

Cys	Gly	Ala	Lys	Ser	Cys	Ile	Met	Asn	Ser	Gly	Ala	Ser	Gly	Ser	Arg
			180					185					190		

Asn	Phe	Ser	Ser	Cys	Ser	Ala	Glu	Asp	Phe	Glu	Lys	Leu	Thr	Leu	Asn
		195					200					205			

Lys	Gly	Gly	Asn	Cys	Leu	Leu	Asn	Ile	Pro	Lys	Pro	Asp	Glu	Ala	Tyr
	210					215					220				

4244

Ser	Ala	Pro	Ser	Cys	Gly	Asn	Lys	Leu	Val	Asp	Ala	Gly	Glu	Glu	Cys	225	230	235	240
Asp	Cys	Gly	Thr	Pro	Lys	Glu	Cys	Glu	Leu	Asp	Pro	Cys	Cys	Glu	Gly	245	250	255	
Ser	Thr	Cys	Lys	Leu	Lys	Ser	Phe	Ala	Glu	Cys	Ala	Tyr	Gly	Asp	Cys	260	265	270	
Cys	Lys	Asp	Cys	Arg	Phe	Leu	Pro	Gly	Gly	Thr	Leu	Cys	Arg	Gly	Lys	275	280	285	
Thr	Ser	Glu	Cys	Asp	Val	Pro	Glu	Tyr	Cys	Asn	Gly	Ser	Ser	Gln	Phe	290	295	300	
Cys	Gln	Pro	Asp	Val	Phe	Ile	Gln	Asn	Gly	Tyr	Pro	Cys	Gln	Asn	Asn	305	310	315	320
Lys	Ala	Tyr	Cys	Tyr	Asn	Gly	Met	Cys	Gln	Tyr	Tyr	Asp	Ala	Gln	Cys	325	330	335	
Gln	Val	Ile	Phe	Xaa	Ser	Lys	Ala	Lys	Ala	Ala	Pro	Lys	Asp	Cys	Phe	340	345	350	
Ile	Glu	Val	Asn	Xaa	Lys	Gly	Asp	Arg	Phe	Gly	Asn	Cys	Gly	Phe	Ser	355	360	365	
Gly	Asn	Glu	Tyr	Lys	Lys	Cys	Ala	Thr	Gly	Asn	Ala	Leu	Cys	Gly	Lys	370	375	380	
Leu	Gln	Cys	Glu	Asn	Val	Gln	Glu	Ile	Pro	Val	Phe	Gly	Ile	Val	Pro	385	390	395	400
Ala	Ile	Ile	Gln	Thr	Pro	Ser	Arg	Gly	Thr	Lys	Cys	Trp	Gly	Val	Asp	405	410	415	
Phe	Gln	Leu	Gly	Ser	Asp	Val	Pro	Asp	Pro	Gly	Met	Val	Asn	Glu	Gly	420	425	430	
Thr	Lys	Cys	Gly	Ala	Gly	Lys	Ile	Cys	Arg	Asn	Phe	Gln	Cys	Val	Asp	435	440	445	
Ala	Ser	Val	Leu	Asn	Tyr	Asp	Cys	Asp	Val	Gln	Lys	Lys	Cys	His	Gly	450	455	460	
His	Gly	Val	Cys	Asn	Ser	Asn	Lys	Asn	Cys	His	Cys	Glu	Asn	Gly	Trp	465	470	475	480
Ala	Pro	Pro	Asn	Cys	Glu	Thr	Lys	Gly	Tyr	Gly	Gly	Ser	Val	Asp	Ser	485	490	495	

4245

Gly Pro Thr Tyr Asn Glu Met Asn Thr Ala Leu Arg Asp Gly Leu Leu
 500 505 510
 Val Phe Phe Phe Leu Ile Val Pro Leu Ile Val Cys Ala Ile Phe Ile
 515 520 525
 Phe Ile Lys Arg Asp Gln Leu Trp Arg Ser Tyr Phe Arg Lys Lys Arg
 530 535 540
 Ser Gln Thr Tyr Glu Ser Asp Gly Lys Asn Gln Ala Asn Pro Ser Arg
 545 550 555 560
 Gln Pro Gly Ser Val Pro Arg His Val Ser Pro Val Thr Pro Pro Arg
 565 570 575
 Glu Val Pro Ile Tyr Ala Asn Arg Phe Ala Val Pro Thr Tyr Ala Ala
 580 585 590
 Lys Gln Pro Gln Gln Phe Pro Ser Arg Pro Pro Pro Pro Gln Pro Lys
 595 600 605
 Val Ser Ser Gln Gly Asn Leu Ile Pro Ala Arg Pro Ala Pro Ala Pro
 610 615 620
 Pro Leu Tyr Ser Ser Leu Thr
 625 630

<210> 4673
 <211> 98
 <212> PRT
 <213> Homo sapiens

<400> 4673
 Met Ile Ala Thr Tyr Cys Phe Cys Cys Cys Phe Phe Ser Asp Ser Phe
 1 5 10 15
 Leu Ser Leu Asp Leu Phe Val Leu Ser Cys Gly Glu Trp Cys Phe Ser
 20 25 30
 Tyr Cys Val Ala Ala Arg Ile Arg Ile Gln Phe Leu Phe Leu Leu Pro
 35 40 45
 Tyr Ser Tyr Cys Val Ala Thr Arg Ile Arg Ile Gln Phe Leu Phe Ile
 50 55 60
 Leu Pro Cys Ser Glu Gly Ser Leu Ile Ser Thr Lys Lys Leu Leu Glu
 65 70 75 80
 Ala Glu Lys Val Asn Val Ile Val His Ser Ala Phe Lys Lys Leu Phe

4246

85

90

95

Gln Leu

<210> 4674

<211> 35

<212> PRT

<213> Homo sapiens

<400> 4674

Asn Lys Ser Trp Ser Ser Thr Ala Val Ala Ala Ala Leu Glu Leu Val
 1 5 10 15

Asp Pro Pro Gly Cys Arg Asn Ser Ala Arg Gly Val Met Asn Arg Asn
 20 25 30

Phe Gln Met
 35

<210> 4675

<211> 487

<212> PRT

<213> Homo sapiens

<400> 4675

Phe Ser Glu Val Gln Ile Ala Leu Asn Glu Ala Lys Leu Ser Glu Glu
 1 5 10 15

Lys Val Lys Ser Glu Cys His Arg Val Gln Glu Glu Asn Ala Arg Leu
 20 25 30

Lys Lys Lys Lys Glu Gln Leu Gln Gln Glu Ile Glu Asp Trp Ser Lys
 35 40 45

Leu His Ala Glu Leu Ser Glu Gln Ile Lys Ser Phe Glu Lys Ser Gln
 50 55 60

Lys Asp Leu Glu Val Ala Leu Thr His Lys Asp Asp Asn Ile Asn Ala
 65 70 75 80

Leu Thr Asn Cys Ile Thr Gln Leu Asn Leu Leu Glu Cys Glu Ser Glu
 85 90 95

Ser Glu Gly Gln Asn Lys Gly Gly Asn Asp Ser Asp Glu Leu Ala Asn
 100 105 110

4247

Gly	Glu	Val	Gly	Gly	Asp	Arg	Asn	Glu	Lys	Met	Lys	Asn	Gln	Ile	Lys	115	120	125	
Gln	Met	Met	Asp	Val	Ser	Arg	Thr	Gln	Thr	Ala	Ile	Ser	Val	Val	Glu	130	135	140	
Glu	Asp	Leu	Lys	Leu	Leu	Gln	Leu	Lys	Leu	Arg	Ala	Ser	Val	Ser	Thr	145	150	155	160
Lys	Cys	Asn	Leu	Glu	Asp	Gln	Val	Lys	Lys	Leu	Glu	Asp	Asp	Arg	Asn	165	170	175	
Ser	Leu	Gln	Ala	Ala	Lys	Ala	Gly	Leu	Glu	Asp	Glu	Cys	Lys	Thr	Leu	180	185	190	
Arg	Gln	Lys	Val	Glu	Ile	Leu	Asn	Glu	Leu	Tyr	Gln	Gln	Lys	Glu	Met	195	200	205	
Ala	Leu	Gln	Lys	Lys	Leu	Ser	Gln	Glu	Glu	Tyr	Glu	Arg	Gln	Glu	Arg	210	215	220	
Glu	His	Arg	Leu	Ser	Ala	Ala	Asp	Glu	Lys	Ala	Val	Ser	Ala	Ala	Glu	225	230	235	240
Glu	Val	Lys	Thr	Tyr	Lys	Arg	Arg	Ile	Glu	Glu	Met	Glu	Asp	Glu	Leu	245	250	255	
Gln	Lys	Thr	Glu	Arg	Ser	Phe	Lys	Asn	Gln	Ile	Ala	Thr	His	Glu	Lys	260	265	270	
Lys	Ala	His	Glu	Asn	Trp	Leu	Lys	Ala	Arg	Ala	Ala	Glu	Arg	Ala	Ile	275	280	285	
Ala	Glu	Glu	Lys	Arg	Glu	Ala	Ala	Asn	Leu	Arg	His	Lys	Leu	Leu	Glu	290	295	300	
Leu	Thr	Gln	Lys	Met	Ala	Met	Leu	Gln	Glu	Glu	Pro	Val	Ile	Val	Lys	305	310	315	320
Pro	Met	Pro	Gly	Lys	Pro	Asn	Thr	Gln	Asn	Pro	Pro	Arg	Arg	Gly	Pro	325	330	335	
Leu	Ser	Gln	Asn	Gly	Ser	Phe	Gly	Pro	Ser	Pro	Val	Ser	Gly	Gly	Glu	340	345	350	
Cys	Ser	Pro	Pro	Leu	Thr	Val	Glu	Pro	Pro	Val	Arg	Pro	Leu	Ser	Ala	355	360	365	
Thr	Leu	Asn	Arg	Arg	Asp	Met	Pro	Arg	Ser	Glu	Phe	Gly	Ser	Val	Asp	370	375	380	

4248

Gly Pro Leu Pro His Pro Arg Trp Ser Ala Glu Ala Ser Gly Lys Pro
 385 390 395 400
 Ser Pro Ser Asp Pro Gly Ser Gly Thr Ala Thr Met Met Asn Ser Ser
 405 410 415
 Ser Arg Gly Ser Ser Pro Thr Arg Val Leu Asp Glu Gly Lys Val Asn
 420 425 430
 Met Ala Pro Lys Gly Pro Pro Pro Phe Pro Gly Val Pro Leu Met Ser
 435 440 445
 Thr Pro Met Gly Gly Pro Val Pro Pro Pro Ile Arg Tyr Gly Pro Pro
 450 455 460
 Pro Gln Leu Cys Gly Pro Phe Gly Pro Arg His Phe Leu His Pro Leu
 465 470 475 480
 Ala Leu Val Cys Val His His
 485

<210> 4676

<211> 74

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4676

Ala Phe Asp Glu Ala Ile Ala Glu Leu Asp Thr Leu Asn Glu Glu Ser
 1 5 10 15
 Tyr Lys Asp Ser Thr Leu Xaa Met Gln Leu Leu Arg Asp Asn Leu Thr
 20 25 30
 Val Ser Thr Thr Ser Thr Gly Phe Ile Val Ser Phe Leu Phe Thr Tyr
 35 40 45
 Leu Ile Ile His Cys Tyr Leu Gln Glu Gly Ile Cys Thr Ile Lys Cys
 50 55 60
 Ser Tyr Ser Phe Lys Leu Leu Asn Leu Leu
 65 70

4249

<210> 4677

<211> 414

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (391)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4677

Val	Ile	Gly	Glu	Phe	Arg	Asp	Cys	Ile	Ser	Ser	Arg	Glu	Phe	Leu	Gln
1				5					10					15	

Pro	Ser	Ser	Lys	Ala	Ser	Leu	Glu	Ser	Thr	Ser	Asp	Leu	Gly	Ala	Ser
			20					25					30		

Gly	Lys	His	Gly	Gly	Asn	Val	Ser	Leu	Asp	Val	Leu	Pro	Val	Lys	Gly
		35					40					45			

Pro	Gln	Gly	Ser	Pro	Leu	Leu	Ser	Arg	Ala	Ala	Arg	Pro	Pro	Asp	Gln
	50					55					60				

Leu	Ala	Ser	Glu	Glu	Pro	Trp	Thr	Val	Leu	Pro	Glu	His	Leu	Ile	Leu
65						70				75					80

Val	Ala	Pro	Ser	Pro	Cys	Asp	Met	Ala	Lys	Thr	Gly	Arg	Phe	Gln	Ile
				85					90					95	

Val	Asn	Asn	Ser	Val	Arg	Leu	Leu	Arg	Phe	Glu	Leu	Cys	Trp	Pro	Ala
			100					105					110		

His	Cys	Leu	Thr	Val	Thr	Pro	Gln	His	Gly	Cys	Val	Ala	Pro	Glu	Ser
		115					120					125			

Lys	Leu	Gln	Ile	Leu	Val	Ser	Pro	Asn	Ser	Ser	Leu	Ser	Thr	Lys	Gln
	130					135					140				

Ser	Met	Phe	Pro	Trp	Ser	Gly	Leu	Ile	Tyr	Ile	His	Cys	Asp	Asp	Gly
145					150					155					160

Gln	Lys	Lys	Ile	Val	Lys	Val	Gln	Ile	Arg	Glu	Asp	Leu	Thr	Gln	Val
				165					170					175	

Glu	Leu	Leu	Thr	Arg	Leu	Thr	Ser	Lys	Pro	Phe	Gly	Ile	Leu	Ser	Pro
			180					185					190		

Val	Ser	Glu	Pro	Ser	Val	Ser	His	Leu	Val	Lys	Pro	Met	Thr	Lys	Pro
		195					200					205			

Pro	Ser	Thr	Lys	Val	Glu	Ile	Arg	Asn	Lys	Ser	Ile	Thr	Phe	Pro	Thr
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4250

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      210              215              220
Thr Glu Pro Gly Glu Thr Ser Glu Ser Cys Leu Glu Leu Glu Asn His
225              230              235              240

Gly Thr Thr Asp Val Lys Trp His Leu Ser Ser Leu Ala Pro Pro Tyr
      245              250              255

Val Lys Gly Val Asp Glu Ser Gly Asp Val Phe Arg Ala Thr Tyr Ala
      260              265              270

Ala Phe Arg Cys Ser Pro Ile Ser Gly Leu Leu Glu Ser His Gly Ile
      275              280              285

Gln Lys Val Ser Ile Thr Phe Leu Pro Arg Gly Arg Gly Asp Tyr Ala
      290              295              300

Gln Phe Trp Asp Val Glu Cys His Pro Leu Lys Glu Pro His Met Lys
305              310              315              320

His Thr Leu Arg Phe Gln Leu Ser Gly Gln Ser Ile Glu Ala Glu Asn
      325              330              335

Glu Pro Glu Asn Ala Cys Leu Ser Thr Asp Ser Leu Ile Lys Ile Asp
      340              345              350

His Leu Val Lys Pro Arg Arg Gln Ala Val Ser Glu Ala Ser Ala Arg
      355              360              365

Ile Pro Asp Arg Gln Leu Asp Val Thr Ala Arg Gly Val Tyr Ala Pro
      370              375              380

Glu Asp Val Tyr Arg Ser Xaa Arg Leu Val Trp Gly Asn His Gly His
385              390              395              400

Leu Lys Ala Ile Cys Glu Ile Ile Leu Leu Leu His Thr His
      405              410

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<210> 4678

<211> 85

<212> PRT

<213> Homo sapiens

<400> 4678

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Leu Tyr Ile Phe Phe Gly Lys Lys Tyr Leu Lys Thr Ser Ala Tyr Lys
  1              5              10              15

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Asp Ser Gln Lys Cys Gln Arg Phe Ser Arg Lys Phe Ile Leu Tyr Ile
      20              25              30

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4251

Ser Lys Met Ile Tyr Gln Cys Tyr Leu Pro Lys Glu Ile Ile Leu Phe
 35 40 45

Phe Pro Phe Gly Glu Ile Leu Ser Ser Asn Met Arg Ile Arg Ser Leu
 50 55 60

Asp Ser Ile Ser Thr Tyr Thr Ile Lys Leu Asn Leu Glu Pro Glu Leu
 65 70 75 80

Gly Cys Ser Val Pro
 85

<210> 4679

<211> 112

<212> PRT

<213> Homo sapiens

<400> 4679

Arg Ala Pro Cys Val Ser Leu Ser Ser Gln Val His Ser Gly Leu Leu
 1 5 10 15

Leu His Pro Leu Leu Arg Gly Cys Pro Ala Gly Arg Gly Pro Leu Leu
 20 25 30

Ser Gln Leu Gln Ser Ser Pro Gly His Leu Gln Ala Phe Val Gly Leu
 35 40 45

Ser Gln Thr Trp Arg Glu Pro Gly Ala Ala Gly Ser Pro Phe His Leu
 50 55 60

Ser Ser Ser Phe Thr Pro Gly Gly Gly Ser Ala Leu Val Val Ser Pro
 65 70 75 80

Leu Gln Gly Ala His Leu His Val Phe Phe Trp Gly Glu Tyr Val Ala
 85 90 95

Lys Leu Thr Asn Leu Gln Thr Pro Glu Ile Ala Ala Trp Ser Arg Ala
 100 105 110

<210> 4680

<211> 561

<212> PRT

<213> Homo sapiens

4252

<220>

<221> SITE

<222> (112)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (169)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (171)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4680

Asn	Cys	His	Phe	Lys	Leu	Ser	Ser	His	Tyr	Leu	Asp	Gly	Tyr	Thr	Ser
1				5					10					15	

Pro	Gly	Phe	Lys	Met	Leu	Glu	Ala	Tyr	Asn	Leu	Thr	Glu	Lys	Asn	Phe
			20					25					30		

Ala	Ser	Val	Gln	Gly	Val	Ser	Leu	Glu	Ser	Gly	Ser	Phe	Pro	Ser	Tyr
		35					40					45			

Ser	Ala	Tyr	Arg	Ile	Gln	Lys	Asn	Ala	Phe	Val	Asn	Gln	Pro	Thr	Ala
	50					55					60				

Asp	Leu	His	Gln	Asn	Gly	Leu	Pro	Pro	Ser	Tyr	Thr	Ile	Ile	Leu	Leu
65					70					75				80	

Phe	Arg	Leu	Leu	Pro	Glu	Thr	Pro	Ser	Asp	Pro	Phe	Ala	Ile	Trp	Gln
				85					90					95	

Ile	Thr	Asp	Arg	Asp	Tyr	Lys	Pro	Gln	Val	Gly	Val	Ile	Ala	Asp	Xaa
		100						105					110		

Ser	Ser	Lys	Thr	Leu	Ser	Phe	Phe	Asn	Lys	Asp	Thr	Arg	Gly	Glu	Val
		115						120				125			

Gln	Thr	Val	Thr	Phe	Asp	Thr	Glu	Glu	Val	Lys	Thr	Leu	Phe	Tyr	Gly
	130					135					140				

Ser	Phe	His	Lys	Val	His	Ile	Val	Val	Thr	Ser	Lys	Ser	Val	Lys	Ile
145					150					155					160

Tyr	Ile	Asp	Cys	Tyr	Glu	Ile	Ile	Xaa	Lys	Xaa	Ile	Lys	Glu	Ala	Gly
			165						170					175	

Asn	Ile	Thr	Thr	Asp	Gly	Tyr	Glu	Ile	Leu	Gly	Lys	Leu	Leu	Lys	Gly
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4253

180	185	190
Glu Arg Lys Ser Ala Ala Phe Gln Ile Gln Ser Phe Asp Ile Val Cys		
195	200	205
Ser Pro Val Trp Thr Ser Arg Asp Arg Cys Cys Asp Ile Pro Ser Arg		
210	215	220
Arg Asp Glu Gly Lys Cys Pro Ala Phe Pro Asn Ser Cys Thr Cys Thr		
225	230	235
Gln Asp Ser Val Gly Pro Pro Gly Pro Pro Gly Pro Ala Gly Gly Pro		
245	250	255
Gly Ala Lys Gly Pro Arg Gly Glu Arg Gly Ile Ser Gly Ala Ile Gly		
260	265	270
Pro Pro Gly Pro Arg Gly Asp Ile Gly Pro Pro Gly Pro Gln Gly Pro		
275	280	285
Pro Gly Pro Gln Gly Pro Asn Gly Leu Ser Ile Pro Gly Glu Gln Gly		
290	295	300
Arg Gln Gly Met Lys Gly Asp Ala Gly Glu Pro Gly Leu Pro Gly Arg		
305	310	315
Thr Gly Thr Pro Gly Leu Pro Gly Pro Pro Gly Pro Met Gly Pro Pro		
325	330	335
Gly Asp Arg Gly Phe Thr Gly Lys Asp Gly Ala Met Gly Pro Arg Gly		
340	345	350
Pro Pro Gly Pro Pro Gly Ser Pro Gly Ser Pro Gly Val Thr Gly Pro		
355	360	365
Ser Gly Lys Pro Gly Lys Pro Gly Asp His Gly Arg Pro Gly Pro Ser		
370	375	380
Gly Leu Lys Gly Glu Lys Gly Asp Arg Gly Asp Ile Ala Ser Gln Asn		
385	390	395
Met Met Arg Ala Val Ala Arg Gln Val Cys Glu Gln Leu Ile Ser Gly		
405	410	415
Gln Met Asn Arg Phe Asn Gln Met Leu Asn Gln Ile Pro Asn Asp Tyr		
420	425	430
Gln Ser Ser Arg Asn Gln Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro		
435	440	445
Gly Ser Ala Gly Ala Arg Gly Glu Pro Gly Pro Gly Gly Arg Pro Gly		

4254

450 455 460
 Phe Pro Gly Thr Pro Gly Met Gln Gly Pro Pro Gly Glu Arg Gly Leu
 465 470 475 480
 Pro Gly Glu Lys Gly Glu Arg Gly Thr Gly Ser Ser Gly Pro Arg Gly
 485 490 495
 Leu Pro Gly Pro Pro Gly Pro Gln Gly Glu Ser Arg Thr Gly Pro Pro
 500 505 510
 Gly Ser Thr Gly Ser Arg Gly Pro Pro Gly Pro Pro Gly Arg Pro Gly
 515 520 525
 Asn Ser Gly Ile Arg Gly Pro Pro Gly Pro Pro Gly Tyr Cys Asp Ser
 530 535 540
 Ser Gln Cys Ala Ser Ile Pro Tyr Asn Gly Gln Ser Tyr Pro Gly Ser
 545 550 555 560
 Gly

<210> 4681

<211> 38

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4681

Thr Ser Pro Thr Thr His Leu Ser Leu Val Pro Asn Ser Cys Ser Pro
 1 5 10 15

Gly Asp Pro Leu Val Leu Glu Arg Pro Pro Pro Arg Trp Ser Xaa Ser
 20 25 30

Phe Val Pro Leu Val Arg
 35

<210> 4682

<211> 309

<212> PRT

<213> Homo sapiens

4255

<400> 4682

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Pro Ala Ile Ala Met Ala Arg Gly Lys Ala Lys Glu Glu Gly Ser Trp
 1             5             10             15

Lys Lys Phe Ile Trp Asn Ser Glu Lys Lys Glu Phe Leu Gly Arg Thr
      20             25             30

Gly Gly Ser Trp Phe Lys Ile Leu Leu Phe Tyr Val Ile Phe Tyr Gly
      35             40             45

Cys Leu Ala Gly Ile Phe Ile Gly Thr Ile Gln Val Met Leu Leu Thr
      50             55             60

Ile Ser Glu Phe Lys Pro Thr Tyr Gln Asp Arg Val Ala Pro Pro Gly
      65             70             75             80

Leu Thr Gln Ile Pro Gln Ile Gln Lys Thr Glu Ile Ser Phe Arg Pro
      85             90             95

Asn Asp Pro Lys Ser Tyr Glu Ala Tyr Val Leu Asn Ile Val Arg Phe
      100            105            110

Leu Glu Lys Tyr Lys Asp Ser Ala Gln Arg Asp Asp Met Ile Phe Glu
      115            120            125

Asp Cys Gly Asp Val Pro Ser Glu Pro Lys Glu Arg Gly Asp Phe Asn
      130            135            140

His Glu Arg Gly Glu Arg Lys Val Cys Arg Phe Lys Leu Glu Trp Leu
      145            150            155            160

Gly Asn Cys Ser Gly Leu Asn Asp Glu Thr Tyr Gly Tyr Lys Glu Gly
      165            170            175

Lys Pro Cys Ile Ile Ile Lys Leu Asn Arg Val Leu Gly Phe Lys Pro
      180            185            190

Lys Pro Pro Lys Asn Glu Ser Leu Glu Thr Tyr Pro Val Met Lys Tyr
      195            200            205

Asn Pro Asn Val Leu Pro Val Gln Cys Thr Gly Lys Arg Asp Glu Asp
      210            215            220

Lys Asp Lys Val Gly Asn Val Glu Tyr Phe Gly Leu Gly Asn Ser Pro
      225            230            235            240

Gly Phe Pro Leu Gln Tyr Tyr Pro Tyr Tyr Gly Lys Leu Leu Gln Pro
      245            250            255

Lys Tyr Leu Gln Pro Leu Leu Ala Val Gln Phe Thr Asn Leu Thr Met

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4256

260 265 270
 Asp Thr Glu Ile Arg Ile Glu Cys Lys Ala Tyr Gly Glu Asn Ile Gly
 275 280 285
 Tyr Ser Glu Lys Asp Arg Phe Gln Gly Arg Phe Asp Val Lys Ile Glu
 290 295 300
 Val Lys Ser Asp Ser
 305

<210> 4683

<211> 177

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (58)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4683

Cys Phe Gly Phe Val Phe Pro Glu Ala Ala Ile Trp Ser Leu Ser Thr
 1 5 10 15
 Gly Met Ser Gln Thr Gly Pro Pro Met Ser Met Ala Ala Pro Ala Arg
 20 25 30
 Asn Ala Arg Val Ser Leu Pro Gly Leu Arg Val Asp Met Pro Ala Pro
 35 40 45
 Cys Gln Pro Pro Val Ala Trp Pro Gly Xaa Pro Glu Pro Val Cys Pro
 50 55 60
 Pro Gln Gly Trp Arg Ser Leu Trp Ala Pro Gly Gly Phe Pro Pro Gly
 65 70 75 80
 Asp Ser His Gly Ala Pro Cys Ser Arg Val Val Thr Val Ser Pro Glu
 85 90 95
 Met Thr Glu Thr Arg His Ser Pro Gly Pro Gln Arg Gly Gly Ala Ser
 100 105 110
 Arg Gln Thr Leu Gly Met Glu Leu Trp Cys Gly Leu Ser Cys Met Val
 115 120 125
 Ala Ser Ala Phe Cys Gln His Phe Trp Met Asp Ile Gly Thr Ile Ile
 130 135 140

4257

Ser Ile Leu Ile His Gly Asp Phe Lys Thr Thr Ile Lys Leu Ile Gln
 145 150 155 160

Ser Pro Leu Thr Leu Thr Asp Val Gly Ile Pro Leu Leu Glu Arg Glu
 165 170 175

Leu

<210> 4684

<211> 439

<212> PRT

<213> Homo sapiens

<400> 4684

Ala Arg Asp Glu Met Gly His Asn Phe Gly Met Phe His Asp Asp Tyr
 1 5 10 15

Ser Cys Lys Cys Pro Ser Thr Ile Cys Val Met Asp Lys Ala Leu Ser
 20 25 30

Phe Tyr Ile Pro Thr Asp Phe Ser Ser Cys Ser Arg Leu Ser Tyr Asp
 35 40 45

Lys Phe Phe Glu Asp Lys Leu Ser Asn Cys Leu Phe Asn Ala Pro Leu
 50 55 60

Pro Thr Asp Ile Ile Ser Thr Pro Ile Cys Gly Asn Gln Leu Val Glu
 65 70 75 80

Met Gly Glu Asp Cys Asp Cys Gly Thr Ser Glu Glu Cys Thr Asn Ile
 85 90 95

Cys Cys Asp Ala Lys Thr Cys Lys Ile Lys Ala Thr Phe Gln Cys Ala
 100 105 110

Leu Gly Glu Cys Cys Glu Lys Cys Gln Phe Lys Lys Ala Gly Met Val
 115 120 125

Cys Arg Pro Ala Lys Asp Glu Cys Asp Leu Pro Glu Met Cys Asn Gly
 130 135 140

Lys Ser Gly Asn Cys Pro Asp Asp Arg Phe Gln Val Asn Gly Phe Pro
 145 150 155 160

Cys His His Gly Lys Gly His Cys Leu Met Gly Thr Cys Pro Thr Leu
 165 170 175

Gln Glu Gln Cys Thr Glu Leu Trp Gly Pro Gly Thr Glu Val Ala Asp

4258

	180		185		190
Lys Ser Cys Tyr Asn Arg Asn Glu Gly Gly Ser Lys Tyr Gly Tyr Cys					
195		200		205	
Arg Arg Val Asp Asp Thr Leu Ile Pro Cys Lys Ala Asn Asp Thr Met					
210		215		220	
Cys Gly Lys Leu Phe Cys Gln Gly Gly Ser Asp Asn Leu Pro Trp Lys					
225		230		235	240
Gly Arg Ile Val Thr Phe Leu Thr Cys Lys Thr Phe Asp Pro Glu Asp					
	245		250		255
Thr Ser Gln Glu Ile Gly Met Val Ala Asn Gly Thr Lys Cys Gly Asp					
	260		265		270
Asn Lys Val Cys Ile Asn Ala Glu Cys Val Asp Ile Glu Lys Ala Tyr					
	275		280		285
Lys Ser Thr Asn Cys Ser Ser Lys Cys Lys Gly His Ala Val Cys Asp					
	290		295		300
His Glu Leu Gln Cys Gln Cys Glu Glu Gly Trp Ile Pro Pro Asp Cys					
305		310		315	320
Asp Asp Ser Ser Val Val Phe His Phe Ser Ile Val Val Gly Val Leu					
	325		330		335
Phe Pro Met Ala Val Ile Phe Val Val Val Ala Met Val Ile Arg His					
	340		345		350
Gln Ser Ser Arg Glu Lys Gln Lys Lys Asp Gln Arg Pro Leu Ser Thr					
	355		360		365
Thr Gly Thr Arg Pro His Lys Gln Lys Arg Lys Pro Gln Met Val Lys					
	370		375		380
Ala Val Gln Pro Gln Glu Met Ser Gln Met Lys Pro His Val Tyr Asp					
385		390		395	400
Leu Pro Val Glu Gly Asn Glu Pro Pro Ala Ser Phe His Lys Asp Thr					
	405		410		415
Asn Ala Leu Pro Pro Thr Val Phe Lys Asp Asn Pro Met Ser Thr Pro					
	420		425		430
Lys Asp Ser Asn Pro Lys Ala					
435					

4259

<210> 4685

<211> 60

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4685

Ala	Gly	Xaa	Pro	Ala	Gly	Xaa	Gly	Pro	Glu	Phe	Pro	Gly	Arg	Pro	Thr
1				5					10					15	

Arg	Pro	Asp	Asp	Cys	Asn	Ser	Pro	Cys	Tyr	Arg	Arg	Glu	Ile	Ile	Gly
		20						25					30		

Ser	Cys	Leu	Leu	Thr	Leu	Cys	Val	Ala	Leu	Trp	Ser	Trp	Ile	Phe	Leu
		35					40					45			

Arg	Phe	Lys	Lys	Asn	His	Ser	Phe	Gly	Thr	Phe	Asn
	50					55					60

<210> 4686

<211> 48

<212> PRT

<213> Homo sapiens

<400> 4686

Gly	Val	Val	Tyr	Ser	Tyr	Phe	Phe	Phe	Leu	Leu	Val	Ile	Leu	Thr	Asn
1				5					10					15	

Met	Ile	Pro	Leu	Leu	Glu	Ser	Leu	Ser	Leu	Pro	His	Pro	Gln	Lys	Cys
			20					25					30		

Leu	Leu	Phe	Met	Thr	Val	Thr	Asn	Tyr	Ser	Gly	Gln	Ile	Ala	Ser	Phe
		35					40					45			

4260

<210> 4687

<211> 351

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4687

Gly	Gly	Ser	Gly	Glu	Phe	Trp	Arg	Lys	Arg	Arg	Val	Leu	Leu	Glu	Leu
1				5				10						15	

Tyr	Arg	Pro	Cys	Phe	Ser	Gly	Pro	Arg	Lys	Val	Ala	Ser	Xaa	Ser	Ala
			20					25					30		

Ala	Ala	Ser	Thr	Leu	Ser	Glu	Pro	Pro	Arg	Arg	Thr	Gln	Glu	Ser	Arg
		35					40					45			

Thr	Arg	Thr	Arg	Ala	Leu	Gly	Leu	Pro	Thr	Leu	Pro	Met	Glu	Lys	Leu
	50					55					60				

Ala	Ala	Ser	Thr	Glu	Pro	Gln	Gly	Pro	Arg	Pro	Val	Leu	Gly	Arg	Glu
65					70					75					80

Ser	Val	Gln	Val	Pro	Asp	Asp	Gln	Asp	Phe	Arg	Ser	Phe	Arg	Ser	Glu
				85					90					95	

Cys	Glu	Ala	Glu	Val	Gly	Trp	Asn	Leu	Thr	Tyr	Ser	Arg	Ala	Gly	Val
		100						105					110		

Ser	Val	Trp	Val	Gln	Ala	Val	Glu	Met	Asp	Arg	Thr	Leu	His	Lys	Ile
		115					120					125			

Lys	Cys	Arg	Met	Glu	Cys	Cys	Asp	Val	Pro	Ala	Glu	Thr	Leu	Tyr	Asp
	130					135					140				

Val	Leu	His	Asp	Ile	Glu	Tyr	Arg	Lys	Lys	Trp	Asp	Ser	Asn	Val	Ile
145					150					155					160

Glu	Thr	Phe	Asp	Ile	Ala	Arg	Leu	Thr	Val	Asn	Ala	Asp	Val	Gly	Tyr
				165					170					175	

Tyr	Ser	Trp	Arg	Cys	Pro	Lys	Pro	Leu	Lys	Asn	Arg	Asp	Val	Ile	Thr
			180					185					190		

Leu	Arg	Ser	Trp	Leu	Pro	Met	Gly	Ala	Asp	Tyr	Ile	Ile	Met	Asn	Tyr
		195					200					205			

Ser	Val	Lys	His	Pro	Lys	Tyr	Pro	Pro	Arg	Lys	Asp	Leu	Val	Arg	Ala
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

4261

210	215	220
Val Ser Ile Gln Thr Gly Tyr Leu Ile Gln Ser Thr Gly Pro Lys Ser		
225	230	235 240
Cys Val Ile Thr Tyr Leu Ala Gln Val Asp Pro Lys Gly Ser Leu Pro		
	245	250 255
Lys Trp Val Val Asn Lys Ser Ser Gln Phe Leu Ala Pro Lys Ala Met		
	260	265 270
Lys Lys Met Tyr Lys Ala Cys Leu Lys Tyr Pro Glu Trp Lys Gln Lys		
	275	280 285
His Leu Pro His Phe Lys Pro Trp Leu His Pro Glu Gln Ser Pro Leu		
	290	295 300
Pro Ser Leu Ala Leu Ser Glu Leu Ser Val Gln His Ala Asp Ser Leu		
	305	310 315 320
Glu Asn Ile Asp Glu Ser Ala Val Ala Glu Ser Arg Glu Glu Arg Met		
	325	330 335
Gly Gly Ala Gly Gly Glu Gly Ser Asp Asp Asp Thr Ser Leu Thr		
	340	345 350

<210> 4688

<211> 54

<212> PRT

<213> Homo sapiens

<400> 4688

Met Gly Val Tyr Asn Phe Tyr Val Ser Cys Phe Gln Gln Leu Cys Leu
1 5 10 15
Gly Trp Ser Leu Ala Gly Gly Asp Arg Ile Ser Glu Trp His Ile Ile
20 25 30
Ser Ile Leu His Met Ser Lys Leu Arg His Arg Glu Leu Asp Asn Leu
35 40 45
Pro Arg Leu His Arg Leu
50

<210> 4689

<211> 65

<212> PRT

4262

<213> Homo sapiens

<400> 4689

Glu Gln Tyr Leu Asp Leu Met Leu Ser Glu Cys Pro Ala Leu Leu Pro
1 5 10 15
Ser Ala Trp Met Ser Glu Cys Phe Tyr Ala Arg Gly Asp Ser Ser Gln
20 25 30
Leu Arg Val Cys Phe Phe Gln Arg Ser Ser Gln Val Ser Phe Ala Lys
35 40 45
Leu Gly His Leu Ala Gln Val Phe Leu Glu Ser Gly Val His Val Thr
50 55 60
Asp
65

<210> 4690

<211> 31

<212> PRT

<213> Homo sapiens

<400> 4690

Leu Leu Leu Ile Ser Tyr Tyr Cys Lys Ala Leu Ser Pro Ala Ser Gly
1 5 10 15
Ser Leu Cys Val Ile Glu Leu Lys Ile Ile Ala Val Tyr Asn Thr
20 25 30

<210> 4691

<211> 127

<212> PRT

<213> Homo sapiens

<400> 4691

Lys Val Gln Thr Leu Phe Gly Thr Thr Arg Ser Phe His Leu Ala Lys
1 5 10 15
Thr Ala Asp Pro Gly Ala Arg Ala Gln Gly Ser Pro Gly Cys Gly Glu
20 25 30
Glu Trp Leu Trp His Leu Pro Ile Leu Trp Val Leu Gln Ala Leu Leu
35 40 45
Glu Val Phe Gly Leu Phe Gly Leu Trp Ser Phe Ser Pro Gly Thr Glu
50 55 60

4263

Val Glu Met Gly Arg Arg Pro Gly Gln Cys Ser Trp Lys Leu Thr Leu
 65 70 75 80

His Phe Ser Ala Pro Val Phe Gln Phe Lys Ser Ala Phe Ser Ser Ala
 85 90 95

Glu Thr Thr Glu Leu Ser Gly Lys Cys Val Val Ala Leu Ala Thr Gly
 100 105 110

Glu Val Trp Gly Gln Leu Val Ile Arg Lys Gly Met Glu Asp Val
 115 120 125

<210> 4692

<211> 329

<212> PRT

<213> Homo sapiens

<400> 4692

Ser Tyr Val His Lys Ser Leu Ser Trp Lys Pro Leu Leu Ser Phe Ile
 1 5 10 15

Ser Pro Ser Ile Pro Ile Thr Phe Leu Arg Asn Val Thr Trp Val Met
 20 25 30

Val Asn Leu Cys Arg His Lys Asp Pro Pro Pro Pro Met Glu Thr Ile
 35 40 45

Gln Glu Ile Leu Pro Ala Leu Cys Val Leu Ile His His Thr Asp Val
 50 55 60

Asn Ile Leu Val Asp Thr Val Trp Ala Leu Ser Tyr Leu Thr Asp Ala
 65 70 75 80

Gly Asn Glu Gln Ile Gln Met Val Ile Asp Ser Gly Ile Val Pro His
 85 90 95

Leu Val Pro Leu Leu Ser His Gln Glu Val Lys Val Gln Thr Ala Ala
 100 105 110

Leu Arg Ala Val Gly Asn Ile Val Thr Gly Thr Asp Glu Gln Thr Gln
 115 120 125

Val Val Leu Asn Cys Asp Ala Leu Ser His Phe Pro Ala Leu Leu Thr
 130 135 140

His Pro Lys Glu Lys Ile Asn Lys Glu Ala Val Trp Phe Leu Ser Asn
 145 150 155 160

4264

Ile Thr Ala Gly Asn Gln Gln Gln Val Gln Ala Val Ile Asp Ala Asn
 165 170 175
 Leu Val Pro Met Ile Ile His Leu Leu Asp Lys Gly Asp Phe Gly Thr
 180 185 190
 Gln Lys Glu Ala Ala Trp Ala Ile Ser Asn Leu Thr Ile Ser Gly Arg
 195 200 205
 Lys Asp Gln Val Ala Tyr Leu Ile Gln Gln Asn Val Ile Pro Pro Phe
 210 215 220
 Cys Asn Leu Leu Thr Val Lys Asp Ala Gln Val Val Gln Val Val Leu
 225 230 235 240
 Asp Gly Leu Ser Asn Ile Leu Lys Met Ala Glu Asp Glu Ala Glu Thr
 245 250 255
 Ile Gly Asn Leu Ile Glu Glu Cys Gly Gly Leu Glu Lys Ile Glu Gln
 260 265 270
 Leu Gln Asn His Glu Asn Glu Asp Ile Tyr Lys Leu Ala Tyr Glu Ile
 275 280 285
 Ile Asp Gln Phe Phe Ser Ser Asp Asp Ile Asp Glu Asp Pro Ser Leu
 290 295 300
 Val Pro Glu Ala Ile Gln Gly Gly Thr Phe Gly Phe Asn Ser Ser Ala
 305 310 315 320
 Asn Val Pro Thr Glu Gly Phe Gln Phe
 325

<210> 4693

<211> 57

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (26)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4693

Met Leu Ser Val Ser Leu Val Phe Ile Ser Ala Ser Ser Ser Leu Leu
 1 5 10 15

Gly Tyr Ile Val Val Leu Phe Pro Val Xaa His Leu Ser Leu Val Phe
 20 25 30

4265

His Tyr Gly Lys Phe Ile Lys Lys Leu Ala Pro Leu Leu Ser Ser Ser
35 40 45

Asn Ala His Lys Glu Met Glu Asp Ile
50 55

<210> 4694

<211> 69

<212> PRT

<213> Homo sapiens

<400> 4694

Gly Lys Gly Ser Lys Pro Leu Lys Met Cys Phe Val Ile Arg Ser Ala
1 5 10 15

Leu Gln Thr Lys Tyr Ala Arg Cys Pro Phe Glu Ala Ser Glu Leu Ser
20 25 30

Leu Gln Gly Phe Lys Ala Thr Phe Gln Gln Glu Lys Ala Leu Arg Ala
35 40 45

Arg Arg Phe Ile Lys Glu Gly Lys Ala Leu Val Ser Leu Leu Arg Lys
50 55 60

Val Gly Phe Leu Ala
65

<210> 4695

<211> 461

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (312)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (406)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4695

Gly Ser Pro Arg Leu Leu Gly Ala Ala Ala Leu Ala Leu Gly Gly Ala
1 5 10 15

4266

Leu Gly Leu Tyr His Thr Ala Arg Trp His Leu Arg Ala Gln Asp Leu
 20 25 30
 His Ala Glu Arg Ser Ala Ala Gln Leu Ser Leu Ser Ser Arg Leu Gln
 35 40 45
 Leu Thr Leu Tyr Gln Tyr Lys Thr Cys Pro Phe Cys Ser Lys Val Arg
 50 55 60
 Ala Phe Leu Asp Phe His Ala Leu Pro Tyr Gln Val Val Glu Val Asn
 65 70 75 80
 Pro Val Arg Arg Ala Glu Ile Lys Phe Ser Ser Tyr Arg Lys Val Pro
 85 90 95
 Ile Leu Val Ala Gln Glu Gly Glu Ser Ser Gln Gln Leu Asn Asp Ser
 100 105 110
 Ser Val Ile Ile Ser Ala Leu Lys Thr Tyr Leu Val Ser Gly Gln Pro
 115 120 125
 Leu Glu Glu Ile Ile Thr Tyr Tyr Pro Ala Met Lys Ala Val Asn Glu
 130 135 140
 Gln Gly Lys Glu Val Thr Glu Phe Gly Asn Lys Tyr Trp Leu Met Leu
 145 150 155 160
 Asn Glu Lys Glu Ala Gln Gln Val Tyr Gly Gly Lys Glu Ala Arg Thr
 165 170 175
 Glu Glu Met Lys Trp Arg Gln Trp Ala Asp Asp Trp Leu Val His Leu
 180 185 190
 Ile Ser Pro Asn Val Tyr Arg Thr Pro Thr Glu Ala Leu Ala Ser Phe
 195 200 205
 Asp Tyr Ile Val Arg Glu Gly Lys Phe Gly Ala Val Glu Gly Ala Val
 210 215 220
 Ala Lys Tyr Met Gly Ala Ala Ala Met Tyr Leu Ile Ser Lys Arg Leu
 225 230 235 240
 Lys Ser Arg His Arg Leu Gln Asp Asn Val Arg Glu Asp Leu Tyr Glu
 245 250 255
 Ala Ala Asp Lys Trp Val Ala Ala Val Gly Lys Asp Arg Pro Phe Met
 260 265 270
 Gly Gly Gln Lys Pro Asn Leu Ala Asp Leu Ala Val Tyr Gly Val Leu
 275 280 285

4267

Arg Val Met Glu Gly Leu Asp Ala Phe Asp Asp Leu Met Gln His Thr
 290 295 300
 His Ile Gln Pro Trp Tyr Leu Xaa Val Glu Arg Ala Ile Thr Glu Ala
 305 310 315 320
 Pro Gln Arg Thr Glu Cys Pro Pro Arg Arg Ala Glu Gly Arg Gln Ala
 325 330 335
 Glu Asp Ala Ser Cys Pro Arg Pro Gly Pro Leu Gly Pro Ala Pro Gly
 340 345 350
 Asp Thr Gly Trp Gly Gln Asp His Ser Ala Pro Cys Pro Arg Thr Pro
 355 360 365
 Thr Ser Pro Leu Ala Ser Asn Thr Gly His Leu Leu Gly Leu Arg Asp
 370 375 380
 Val Arg Asp Glu Phe Gln Pro Cys His Cys Pro Gly Ala Thr Pro Pro
 385 390 395 400
 Cys Pro Cys Leu Pro Xaa Cys Arg Pro Ser Ser Trp Thr Leu Ser Gly
 405 410 415
 Cys Pro Met Ala Thr Ser Cys Gly Trp Gly Pro Ser Thr Gly Gln Gln
 420 425 430
 Asp Gly Leu Phe Ser Val Glu Ser His Pro Trp Val Pro Leu Val Pro
 435 440 445
 Thr Leu Pro Lys Pro Pro Gly Thr Gly Thr Cys Leu Gln
 450 455 460

<210> 4696

<211> 274

<212> PRT

<213> Homo sapiens

<400> 4696

Thr Ser Arg Gln Asn Lys Thr Glu Asn Leu Leu Glu Ser Arg Met Met
 1 5 10 15
 Asp Pro Cys Ser Val Gly Val Gln Leu Arg Thr Thr Asn Glu Cys His
 20 25 30
 Lys Thr Tyr Tyr Thr Arg His Thr Gly Phe Lys Thr Leu Gln Glu Leu
 35 40 45
 Ser Ser Asn Asp Met Leu Leu Leu Gln Leu Arg Thr Gly Met Thr Leu

4268

50	55	60
Ser Gly Asn Asn Thr Ile Cys Phe His His Val Lys Ile Tyr Ile Asp		
65	70	75 80
Arg Phe Glu Asp Leu Gln Lys Ser Cys Cys Asp Pro Phe Asn Ile His		
	85	90 95
Lys Lys Leu Ala Lys Lys Asn Leu His Val Ile Asp Leu Asp Asp Ala		
	100	105 110
Thr Phe Leu Ser Ala Lys Phe Gly Arg Gln Leu Val Pro Gly Trp Lys		
	115	120 125
Leu Cys Pro Lys Cys Thr Gln Ile Ile Asn Gly Ser Val Asp Val Asp		
	130	135 140
Thr Glu Asp Arg Gln Lys Arg Lys Pro Glu Ser Asp Gly Arg Thr Ala		
	145	150 155 160
Lys Ala Leu Arg Ser Leu Gln Phe Thr Asn Pro Gly Arg Gln Thr Glu		
	165	170 175
Phe Ala Pro Glu Thr Gly Lys Arg Glu Lys Arg Arg Leu Thr Lys Asn		
	180	185 190
Ala Thr Ala Gly Ser Asp Arg Gln Val Ile Pro Ala Lys Ser Lys Val		
	195	200 205
Tyr Asp Ser Gln Gly Leu Leu Ile Phe Ser Gly Met Asp Leu Cys Asp		
	210	215 220
Cys Leu Asp Glu Asp Cys Leu Gly Cys Phe Tyr Ala Cys Pro Ala Cys		
	225	230 235 240
Gly Ser Thr Lys Cys Gly Ala Glu Cys Arg Cys Asp Arg Lys Trp Leu		
	245	250 255
Tyr Glu Gln Ile Glu Ile Glu Gly Gly Glu Ile Ile His Asn Lys His		
	260	265 270
Ala Gly		

<210> 4697

<211> 122

<212> PRT

<213> Homo sapiens

4269

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (51)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (113)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4697

Leu	Gly	Asp	Glu	Thr	Gly	Ser	Ser	Met	Thr	His	Leu	Ile	Glu	Tyr	Asp
1				5					10					15	

Arg	His	Xaa	Lys	Ser	Arg	Leu	Xaa	Pro	Leu	Gln	His	Leu	Tyr	Leu	Leu
			20					25					30		

Pro	Ala	Asp	His	Ser	Arg	Asn	Ala	Ala	Glu	Arg	Phe	Pro	Gly	Ala	Trp
		35					40					45			

Phe	Gln	Xaa	Pro	Thr	Val	Asp	Ser	Glu	Ala	Ser	Ala	Phe	Ala	Gly	Gly
	50					55					60				

Leu	Pro	Val	Ile	Phe	Trp	Ser	Trp	Ala	Gly	Leu	Val	Gly	Phe	Pro	Phe
65					70					75					80

Val	Trp	Pro	Val	Ser	Xaa	Cys	Leu	Asn	Pro	Leu	Ser	Phe	Ile	Lys	Ser
				85					90					95	

Lys	Thr	Lys	Glu	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Phe	Gly	Gly	Gly
		100					105						110		

Xaa	Arg	Tyr	Pro	Ile	Gly	Pro	Leu	Gly	Gly
	115						120		

4270

<210> 4698

<211> 64

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4698

Asn	Ser	Gly	Ser	His	Asn	Ile	Val	Ala	Ser	Arg	Ser	Xaa	Xaa	Ile	Phe
1				5					10					15	

Asp	Gln	Asp	Asp	Xaa	Asn	Gly	Leu	Thr	Trp	Val	Phe	Ile	Val	Tyr	Gln
		20						25					30		

Ile	Leu	His	Thr	Lys	Glu	Trp	Lys	Tyr	Ser	Phe	Thr	Lys	Phe	Leu	Arg
		35					40					45			

Lys	Ile	Phe	Leu	Pro	Ile	Tyr	His	Asn	Tyr	Arg	Met	Asp	Ile	Cys	Phe
	50					55					60				

<210> 4699

<211> 105

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

4271

<222> (82)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (83)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4699

Gly	Ala	Arg	Leu	Gly	Ala	Leu	Gln	Ala	Ala	Pro	Gln	Pro	Gly	Thr	Pro
1				5					10					15	

Thr	Pro	Leu	Arg	Ser	Pro	Gln	Ala	Ser	Gly	Pro	His	Pro	Ser	Glu	Ala
			20					25					30		

Gln	Gly	Ser	Pro	Val	His	Ala	Gly	Phe	Ser	Pro	Gly	Pro	Met	Ser	Phe
		35					40					45			

Leu	Ala	Gly	Leu	Gly	Leu	Ala	Val	Gly	Leu	Ala	Leu	Leu	Leu	Tyr	Cys
	50					55					60				

Tyr	Pro	Pro	Asp	Pro	Lys	Gly	Leu	Pro	Gly	Thr	Arg	Arg	Val	Xaa	Gly
65					70					75					80

Phe	Xaa	Xaa	Val	Ile	Ile	Asp	Arg	His	Val	Ser	Arg	Tyr	Leu	Leu	Ala
				85					90					95	

Phe	Leu	Ala	Asp	Asp	Leu	Gly	Gly	Leu
			100				105	

<210> 4700

<211> 232

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (149)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4700

Gly	Ala	Ile	Gly	Thr	Ser	Ser	Pro	Ala	Leu	Leu	Glu	Cys	Gln	Glu	Gly
1				5					10					15	

4272

Val Gly Pro Ala Arg Pro Ser Leu Leu Val Pro Pro Pro Pro Arg Xaa
 20 25 30
 Arg Arg Leu Asp Leu Ala Arg Thr Leu Pro Ala Glu Arg Thr Asp Ser
 35 40 45
 Gln Ser Leu Tyr Ile Val Tyr Ile Ala Leu Pro Gly Arg Thr Pro Arg
 50 55 60
 Pro Ala Leu Ala Phe Ala Phe Leu Met Pro Ala Cys Cys Asn Arg Pro
 65 70 75 80
 Ser Pro Arg Pro Ser Pro Ala His Leu Thr Ala Ser Ser Val Leu Arg
 85 90 95
 Arg Gln Arg His Val Leu Ala Ala Ser Ala Ala Ser Pro Cys Gln Trp
 100 105 110
 Ser Gly Leu Arg Val Ala His Ser Leu Arg Gln Val Val Ser Leu Cys
 115 120 125
 Pro Arg Cys Thr Gly Ser Cys Pro Phe Ser Gly Ala Cys Ala Ser Ser
 130 135 140
 Leu Pro Ser Pro Xaa Ser Cys Pro His Ser His Ser Gly Ser Trp Gly
 145 150 155 160
 Thr Trp Ser Gln Gly Arg Pro Cys Ser Ser Thr Glu Val Ala Gly Leu
 165 170 175
 Ala Leu Trp Pro Thr Asp Phe Leu Ser Cys Leu Leu Asp Ala Ser Glu
 180 185 190
 Leu Gln Thr Gln Gly Ser His Gly Phe Ser Phe Thr Pro Thr Gly Phe
 195 200 205
 Ser Ser Asn Arg Lys Val Gly Val Gly Ser Cys Arg Asp Gly Ala Gly
 210 215 220
 Arg Gly Ala Met Gly Gly Leu Phe
 225 230

<210> 4701

<211> 665

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

4273

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (107)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (111)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (116)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4701

Asp	Val	His	His	Arg	Ala	Glu	Cys	Arg	Ala	Asp	Arg	His	Arg	Arg	Glu
1				5					10					15	

Xaa	Leu	Tyr	Asp	Met	Phe	Val	Asn	Phe	Pro	Asp	Gln	Pro	Val	Val	Trp
			20					25					30		

Arg	Glu	Ile	Ser	Ile	Ile	Thr	Ser	Ala	Leu	Arg	Asn	Asp	Ser	Gln	Asp
		35					40					45			

Lys	Gln	Thr	Gln	Phe	Leu	Arg	Ser	Leu	Phe	Glu	Thr	Leu	Pro	Gly	Arg
	50					55					60				

Val	Gln	Cys	Glu	Met	Leu	Leu	Lys	Val	Thr	Glu	Gln	Cys	Phe	Asn	Thr
65					70					75					80

Leu	Glu	Arg	Ser	Glu	Met	Leu	Leu	Leu	Leu	Arg	Arg	Phe	Pro	Glu	
				85					90				95		

Thr	Val	Val	Gln	His	Gly	Val	Gly	Leu	Gly	Xaa	Ala	Leu	Leu	Xaa	Ala
			100					105					110		

Glu	Thr	Ile	Xaa	Glu	Gln	Glu	Ser	Pro	Val	Asn	Cys	Phe	Arg	Lys	Leu
		115					120					125			

Phe	Val	Cys	Asp	Val	Leu	Pro	Leu	Ile	Ile	Asn	Asn	His	Asp	Val	Arg
	130					135					140				

Leu	Pro	Ala	Asn	Leu	Leu	Tyr	Lys	Tyr	Leu	Asn	Lys	Ala	Ala	Glu	Phe
145					150					155					160

Tyr	Ile	Asn	Tyr	Val	Thr	Arg	Ser	Thr	Gln	Ile	Glu	Asn	Gln	His	Gln
				165					170					175	

4274

Gly	Ala	Gln	Asp	Thr	Ser	Asp	Leu	Met	Ser	Pro	Ser	Lys	Arg	Ser	Ser		
			180					185					190				
Gln	Lys	Tyr	Ile	Ile	Glu	Gly	Leu	Thr	Glu	Lys	Ser	Ser	Gln	Ile	Val		
		195					200					205					
Asp	Pro	Trp	Glu	Arg	Leu	Phe	Lys	Ile	Leu	Asn	Val	Val	Gly	Met	Arg		
	210					215					220						
Cys	Glu	Trp	Gln	Met	Asp	Lys	Gly	Arg	Arg	Ser	Tyr	Gly	Asp	Ile	Leu		
225					230					235					240		
His	Arg	Met	Lys	Asp	Leu	Cys	Arg	Tyr	Met	Asn	Asn	Phe	Asp	Ser	Glu		
				245					250					255			
Ala	His	Ala	Lys	Tyr	Lys	Asn	Gln	Val	Val	Tyr	Ser	Thr	Met	Leu	Val		
			260					265					270				
Phe	Phe	Lys	Asn	Ala	Phe	Gln	Tyr	Val	Asn	Ser	Ile	Gln	Pro	Ser	Leu		
		275					280					285					
Phe	Gln	Gly	Pro	Asn	Ala	Pro	Ser	Gln	Val	Pro	Leu	Val	Leu	Leu	Glu		
	290					295					300						
Asp	Val	Ser	Asn	Val	Tyr	Gly	Asp	Val	Glu	Ile	Asp	Arg	Asn	Lys	His		
305					310					315					320		
Ile	His	Lys	Lys	Arg	Lys	Leu	Ala	Glu	Gly	Arg	Glu	Lys	Thr	Met	Ser		
				325					330					335			
Ser	Asp	Asp	Glu	Asp	Cys	Ser	Ala	Lys	Gly	Arg	Asn	Arg	His	Ile	Val		
			340					345					350				
Val	Asn	Lys	Ala	Glu	Leu	Ala	Asn	Ser	Thr	Glu	Val	Leu	Glu	Ser	Phe		
		355					360					365					
Lys	Leu	Ala	Arg	Glu	Ser	Trp	Glu	Leu	Leu	Tyr	Ser	Leu	Glu	Phe	Leu		
	370					375					380						
Asp	Lys	Glu	Phe	Thr	Arg	Ile	Cys	Leu	Ala	Trp	Lys	Thr	Asp	Thr	Trp		
385					390					395					400		
Leu	Trp	Leu	Arg	Ile	Phe	Leu	Thr	Asp	Met	Ile	Ile	Tyr	Gln	Gly	Gln		
				405					410					415			
Tyr	Lys	Lys	Ala	Ile	Ala	Ser	Leu	His	His	Leu	Ala	Ala	Leu	Gln	Gly		
			420					425					430				
Ser	Ile	Ser	Gln	Pro	Gln	Ile	Thr	Gly	Gln	Gly	Thr	Leu	Glu	His	Gln		
		435					440					445					

4275

Arg Ala Leu Ile Gln Leu Ala Thr Cys His Phe Ala Leu Gly Glu Tyr
 450 455 460
 Arg Met Thr Cys Glu Lys Val Leu Asp Leu Met Cys Tyr Met Val Leu
 465 470 475 480
 Pro Ile Gln Asp Gly Gly Lys Ser Gln Glu Glu Pro Ser Lys Val Lys
 485 490 495
 Pro Lys Phe Arg Lys Gly Ser Asp Leu Lys Leu Leu Pro Cys Thr Ser
 500 505 510
 Lys Ala Ile Met Pro Tyr Cys Leu His Leu Met Leu Ala Cys Phe Lys
 515 520 525
 Leu Arg Ala Phe Thr Asp Asn Arg Asp Asp Met Ala Leu Gly His Val
 530 535 540
 Ile Val Leu Leu Gln Gln Glu Trp Pro Arg Gly Glu Asn Leu Phe Leu
 545 550 555 560
 Lys Ala Val Asn Lys Ile Cys Gln Gln Gly Asn Phe Gln Tyr Glu Asn
 565 570 575
 Phe Phe Asn Tyr Val Thr Asn Ile Asp Met Leu Glu Glu Phe Ala Tyr
 580 585 590
 Leu Arg Thr Gln Glu Gly Gly Lys Ile His Leu Glu Leu Leu Pro Asn
 595 600 605
 Gln Gly Met Leu Ile Lys His His Thr Val Thr Arg Gly Ile Thr Lys
 610 615 620
 Gly Val Lys Glu Asp Phe Arg Leu Ala Met Glu Arg Gln Val Ser Arg
 625 630 635 640
 Cys Gly Glu Asn Leu Met Val Val Leu His Arg Phe Cys Ile Asn Glu
 645 650 655
 Lys Ile Leu Leu Leu Gln Thr Leu Thr
 660 665

<210> 4702

<211> 85

<212> PRT

<213> Homo sapiens

<400> 4702

4276

Val Lys Ser Glu Asp Leu Asn Glu Val Thr Pro Lys Leu Ser Gln Ser
 1 5 10 15
 His Val Phe Leu Thr Leu Gly Ile Ser Asn Ser Ile Tyr Thr Ala Phe
 20 25 30
 Phe Lys Cys Asn Phe Gln Arg Cys Leu Leu Pro His Pro Leu Leu Leu
 35 40 45
 Ser Ile Ile Ile Asp Phe Trp Arg Leu Thr Lys Gln Ala Ile Pro Lys
 50 55 60
 Phe Ser Pro Arg Lys Val Ser Trp Ile Lys Trp Phe Leu Arg Thr Leu
 65 70 75 80
 Arg Val Tyr Ile Leu
 85

<210> 4703

<211> 99

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (81)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4703

Cys Asn Leu Tyr Ser Trp Arg Asn Lys Ile Phe Ile Trp Asp Tyr Phe
 1 5 10 15
 Leu Gln Pro Phe Asn Lys His Leu Leu Tyr Ala Thr Lys Arg Gln Ala
 20 25 30
 Arg Arg Trp Ala Leu Gln Thr Gln Trp Leu Val Ala Val Trp Thr Trp
 35 40 45
 Ser Leu Leu Ala Trp Asn Pro Ser Leu Pro Asn Met Gln Ser Pro His
 50 55 60
 Leu Lys Ala Ser Leu Cys Pro Phe Ser Asp Ala Leu Phe Arg Asn Ala
 65 70 75 80
 Xaa Pro Leu Tyr Ser Glu Ile Arg Arg His Lys Thr Ser Ser Lys Ser
 85 90 95
 Leu Leu Trp

4277

<210> 4704

<211> 215

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4704

Leu Gly Ala Val Gly Ala Xaa Leu Arg Gly Leu Arg Gly Cys Arg Gly
 1 5 10 15

Ala Arg Gly Ala Gly Gly Lys Ala His Leu Gly Trp Pro Trp Arg Ala
 20 25 30

Gly Gly Asp Met Glu Asp Gly Val Leu Lys Glu Gly Phe Leu Val Lys
 35 40 45

Arg Gly His Ile Val His Asn Trp Lys Ala Arg Trp Phe Ile Leu Arg
 50 55 60

Gln Asn Thr Leu Val Tyr Tyr Lys Leu Glu Gly Gly Arg Arg Val Thr
 65 70 75 80

Pro Pro Lys Gly Arg Ile Leu Leu Asp Gly Cys Thr Ile Thr Cys Pro
 85 90 95

Cys Leu Glu Tyr Glu Asn Arg Pro Leu Leu Ile Lys Leu Lys Thr Gln
 100 105 110

Thr Ser Thr Glu Tyr Phe Leu Glu Ala Cys Ser Arg Glu Glu Arg Asp
 115 120 125

Ala Trp Ala Phe Glu Ile Thr Gly Ala Ile His Ala Gly Gln Pro Gly
 130 135 140

Lys Val Gln Gln Leu His Ser Leu Arg Asn Ser Phe Lys Leu Pro Pro
 145 150 155 160

His Ile Ser Leu His Arg Ile Val Asp Lys Met His Asp Ser Asn Thr
 165 170 175

Gly Ile Arg Ser Ser Pro Asn Met Glu Gln Gly Ser Thr Tyr Lys Lys
 180 185 190

Thr Phe Leu Gly Ser Ser Trp Trp Thr Gly Ser Ser Pro Thr Ala Ser

4278

195 200 205
 Arg Ala Ala Val Trp Arg Arg
 210 215

<210> 4705
 <211> 112
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (9)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (69)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (103)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 4705
 Asp Leu Pro Pro Leu Leu Val Phe Xaa Ala Val Lys Thr Leu Ser Thr
 1 5 10 15
 Val Thr Tyr Phe Leu Ser Gln Ala Ala Ser His Leu Val Pro Cys Ala
 20 25 30
 Asp Ser Ser Thr Val Ala Arg Ile Gln Tyr Glu Ser Arg Gly Asp Arg
 35 40 45
 Arg Met Val Gly Ala Ala Gly Phe Ser Thr Tyr Pro Ser His Gln Gly
 50 55 60
 Pro Asp Ala Leu Xaa Pro Ala Pro Ser Ala His Pro Cys Ala Gln Leu
 65 70 75 80
 Glu Gly Cys Met Ala Arg Ser Pro Leu Phe Arg Trp Val Glu Thr Leu
 85 90 95
 Met Ile Pro Ala Pro Pro Xaa Arg Ala Pro Ala Thr Glu Gln Ala Leu
 100 105 110

4279

<210> 4706

<211> 63

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4706

Gln	Ser	Arg	His	Gln	Leu	Ala	Trp	Leu	Leu	Gly	Met	Ala	Ile	Gly	Gly
1				5				10						15	

Ser	Xaa	Cys	Gly	Pro	Leu	Leu	Ala	Asn	Cys	Met	Gln	Pro	Pro	Thr	Leu
			20					25					30		

Arg	Met	Phe	Ala	Trp	Ala	Glu	Asn	Ala	Glu	Thr	Leu	Trp	Pro	Asp	Leu
		35					40					45			

Thr	Val	Ser	Thr	Trp	Gln	Trp	Ala	Leu	Trp	Thr	Gln	His	Phe	Ser	
	50					55					60				

<210> 4707

<211> 578

<212> PRT

<213> Homo sapiens

<400> 4707

Pro	Thr	Ala	Ser	Ala	Gly	Ala	Arg	Trp	Ser	His	Lys	Thr	Ala	Ser	Val
1				5					10					15	

Leu	Gln	Ser	Val	Ser	Leu	Glu	Val	Thr	Arg	Ala	Thr	Ala	Gly	Met	Val
			20					25					30		

Leu	Ala	Glu	Leu	Tyr	Val	Ser	Asp	Arg	Glu	Gly	Ser	Asp	Ala	Thr	Gly
		35					40					45			

Asp	Gly	Thr	Lys	Glu	Lys	Pro	Phe	Lys	Thr	Gly	Leu	Lys	Ala	Leu	Met
	50					55					60				

Thr	Val	Gly	Lys	Glu	Pro	Phe	Pro	Thr	Ile	Tyr	Val	Asp	Ser	Gln	Lys
	65				70					75					80

Glu	Asn	Glu	Arg	Trp	Asn	Val	Ile	Ser	Lys	Ser	Gln	Leu	Lys	Asn	Ile
				85					90					95	

4280

Lys Lys Met Trp His Arg Glu Gln Met Lys Ser Glu Ser Arg Glu Lys
 100 105 110
 Lys Glu Ala Glu Asp Ser Leu Arg Arg Glu Lys Asn Leu Glu Glu Ala
 115 120 125
 Lys Lys Ile Thr Ile Lys Asn Asp Pro Ser Leu Pro Glu Pro Lys Cys
 130 135 140
 Val Lys Ile Gly Ala Leu Glu Gly Tyr Arg Gly Gln Arg Val Lys Val
 145 150 155 160
 Phe Gly Trp Val His Arg Leu Arg Arg Gln Gly Lys Asn Leu Met Phe
 165 170 175
 Leu Val Leu Arg Asp Gly Thr Gly Tyr Leu Gln Cys Val Leu Ala Asp
 180 185 190
 Glu Leu Cys Gln Cys Tyr Asn Gly Val Leu Leu Ser Thr Glu Ser Ser
 195 200 205
 Val Ala Val Tyr Gly Met Leu Asn Leu Thr Pro Lys Gly Lys Gln Ala
 210 215 220
 Pro Gly Gly His Glu Leu Ser Cys Asp Phe Trp Glu Leu Ile Gly Leu
 225 230 235 240
 Ala Pro Ala Gly Gly Ala Asp Asn Leu Ile Asn Glu Glu Ser Asp Val
 245 250 255
 Asp Val Gln Leu Asn Asn Arg His Met Met Ile Arg Gly Glu Asn Met
 260 265 270
 Ser Lys Ile Leu Lys Ala Arg Ser Met Val Thr Arg Cys Phe Arg Asp
 275 280 285
 His Phe Phe Asp Arg Gly Tyr Tyr Glu Val Thr Pro Pro Thr Leu Val
 290 295 300
 Gln Thr Gln Val Glu Gly Gly Ala Thr Leu Phe Lys Leu Asp Tyr Phe
 305 310 315 320
 Gly Glu Glu Ala Phe Leu Thr Gln Ser Ser Gln Leu Tyr Leu Glu Thr
 325 330 335
 Cys Leu Pro Ala Leu Gly Asp Val Phe Cys Ile Ala Gln Ser Tyr Arg
 340 345 350
 Ala Glu Gln Ser Arg Thr Arg Arg His Leu Ala Glu Tyr Thr His Val
 355 360 365

4281

Glu Ala Glu Cys Pro Phe Leu Thr Phe Asp Asp Leu Leu Asn Arg Leu
 370 375 380
 Glu Asp Leu Val Cys Asp Val Val Asp Arg Ile Leu Lys Ser Pro Ala
 385 390 395 400
 Gly Ser Ile Val His Glu Leu Asn Pro Asn Phe Gln Pro Pro Lys Arg
 405 410 415
 Pro Phe Lys Arg Met Asn Tyr Ser Asp Ala Ile Val Trp Leu Lys Glu
 420 425 430
 His Asp Val Lys Lys Glu Asp Gly Thr Phe Tyr Glu Phe Gly Glu Asp
 435 440 445
 Ile Pro Glu Ala Pro Glu Arg Leu Met Thr Asp Thr Ile Asn Glu Pro
 450 455 460
 Ile Leu Leu Cys Arg Phe Pro Val Glu Ile Lys Ser Phe Tyr Met Gln
 465 470 475 480
 Arg Cys Pro Glu Asp Ser Arg Leu Thr Glu Ser Val Asp Val Leu Met
 485 490 495
 Pro Asn Val Gly Glu Ile Val Gly Gly Ser Met Arg Ile Phe Asp Ser
 500 505 510
 Glu Glu Ile Leu Ala Gly Tyr Lys Arg Glu Gly Ile Asp Pro Thr Pro
 515 520 525
 Tyr Tyr Trp Tyr Thr Asp Gln Arg Lys Tyr Gly Thr Cys Pro His Gly
 530 535 540
 Gly Tyr Gly Leu Gly Leu Glu Arg Phe Leu Thr Trp Ile Leu Asn Arg
 545 550 555 560
 Tyr His Ile Arg Asp Val Cys Leu Tyr Pro Arg Phe Val Gln Arg Cys
 565 570 575
 Thr Pro

<210> 4708

<211> 153

<212> PRT

<213> Homo sapiens

<220>

4282

<221> SITE
 <222> (105)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (106)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (122)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (134)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 4708
 Pro Leu Asn Gly Leu Leu Gly Gly Leu Asn Gly Ala Ala Ala Pro Asn
 1 5 10 15
 Pro Ala Ser Leu Ser Gln Ala Gly Gly Ala Pro Thr Leu Gln Leu Pro
 20 25 30
 Gly Cys Leu Asn Ser Leu Thr Glu Gln Gln Arg His Leu Leu Gln Gln
 35 40 45
 Gln Glu Gln Gln Leu Gln Gln Leu Gln Gln Leu Leu Ala Ser Pro Gln
 50 55 60
 Leu Thr Pro Glu His Gln Thr Val Val Tyr Gln Met Ile Gln Gln Ile
 65 70 75 80
 Gln Gln Lys Arg Glu Leu Gln Arg Leu Gln Met Ala Gly Gly Ser Gln
 85 90 95
 Leu Pro Met Ala Ser Leu Leu Ala Xaa Xaa Ser Thr Pro Leu Leu Ser
 100 105 110
 Ala Gly Thr Pro Gly Leu Leu Pro Thr Xaa Ser Ala Pro Pro Leu Leu
 115 120 125
 Pro Ala Gly Ala Leu Xaa Ala Pro Ser Leu Gly Asn Asn Thr Ser Leu
 130 135 140
 Met Ala Ala Ala Ala Ala Ala Gln Gln
 145 150

4283

<210> 4709

<211> 77

<212> PRT

<213> Homo sapiens

<400> 4709

Thr Cys Tyr Ile Leu Pro Lys Thr Ala Pro Leu Glu Cys Arg Ala Pro
 1 5 10 15

Leu Arg Ser Pro Ser Pro Leu Gly Arg Leu Gln Val Leu Pro Arg Ser
 20 25 30

Pro Leu His Val His Thr His Asn Ser Gly Lys Glu Val Leu Gly Leu
 35 40 45

Gln Val Gln Arg Ser Arg Ser Gly Thr Gly Pro Ala Cys Ser Gln Ala
 50 55 60

Gly Ser Gly Ala Val Gln Gly Gly Asn Trp Cys Ile Phe
 65 70 75

<210> 4710

<211> 172

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (79)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (133)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (166)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4710

Leu Glu Pro Leu Gly Leu Glu Ser Gly Arg Gly Leu Pro Ser Gln Pro

4284

1 5 10 15
 Leu Ser Phe Leu Pro Arg Pro Gln Glu Leu Leu Gln Thr Gln Asp Phe
 20 25 30
 Ser Lys Phe Gln Ala Leu Lys Pro Lys Leu Leu Asp Thr Val Asp Asp
 35 40 45
 Met Leu Ala Asn Asp Ile Ala Arg Leu Met Val Met Val Arg Gln Glu
 50 55 60
 Glu Ser Leu Met Pro Xaa Gln Val Val Lys Gly Gly Ala Phe Xaa Gly
 65 70 75 80
 Thr Met Asn Gly Pro Phe Gly His Gly Tyr Gly Glu Gly Ala Gly Glu
 85 90 95
 Gly Ile Asp Asp Val Glu Trp Val Val Gly Lys Asp Lys Pro Thr Tyr
 100 105 110
 Asp Glu Ile Phe Tyr Thr Leu Ser Pro Val Asn Gly Lys Ile Thr Gly
 115 120 125
 Ala Asn Ala Lys Xaa Glu Met Val Lys Val Gln Ala Ser Gln His Arg
 130 135 140
 Ala Lys Gly Lys Ile Trp Lys Leu Ala Asp Trp Thr Arg Thr Gly Leu
 145 150 155 160
 Leu Asp Asp Lys Glu Xaa Ala Leu Gly Asn His Leu
 165 170

<210> 4711

<211> 193

<212> PRT

<213> Homo sapiens

<400> 4711

Leu Gln Ala Arg Leu Leu Ser Ala Lys Gly Glu Ile Trp Met Ala Ser
 1 5 10 15
 Thr Ser Tyr Asp Tyr Cys Arg Val Pro Met Glu Asp Gly Asp Lys Arg
 20 25 30
 Cys Lys Leu Leu Leu Gly Ile Gly Ile Leu Val Leu Leu Ile Ile Val
 35 40 45
 Ile Leu Gly Val Pro Leu Ile Ile Phe Thr Ile Lys Ala Asn Ser Glu
 50 55 60

4285

Ala Cys Arg Asp Gly Leu Arg Ala Val Met Glu Cys Arg Asn Val Thr
 65 70 75 80
 His Leu Leu Gln Gln Glu Leu Thr Glu Ala Gln Lys Gly Phe Gln Asp
 85 90 95
 Val Glu Ala Gln Ala Ala Thr Cys Asn His Thr Val Met Ala Leu Met
 100 105 110
 Ala Ser Leu Asp Ala Glu Lys Ala Gln Gly Gln Lys Lys Val Glu Glu
 115 120 125
 Leu Glu Gly Glu Ile Thr Thr Leu Asn His Lys Leu Gln Asp Ala Ser
 130 135 140
 Ala Glu Val Glu Arg Leu Arg Arg Glu Asn Gln Val Leu Ser Val Arg
 145 150 155 160
 Ile Ala Asp Lys Lys Tyr Tyr Pro Ser Ser Gln Asp Ser Ser Ser Ala
 165 170 175
 Ala Ala Pro Gln Leu Leu Ile Val Leu Leu Gly Leu Ser Ala Leu Leu
 180 185 190
 Gln

<210> 4712

<211> 69

<212> PRT

<213> Homo sapiens

<400> 4712

Leu Glu Gly Ala Leu Thr Arg Thr Glu His Trp Ser Asn Asn Leu Ala
 1 5 10 15
 Thr Phe Pro Trp Lys Arg Ser Ala Arg Ser Gln Ile Arg Arg Asp Ala
 20 25 30
 Pro Ala Gly Lys Gly Gly Gly Cys Lys Thr Arg Ala Val Ser Leu Gly
 35 40 45
 Arg Lys Ala Val Val Ser Pro Gln Gly Val Gln Leu Cys Gly Thr His
 50 55 60
 Thr Tyr Arg Ser Lys
 65

4286

<210> 4713

<211> 205

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (122)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4713

Val	Lys	Thr	Pro	Pro	Arg	Val	Leu	Thr	Leu	Ser	Glu	Arg	Pro	Leu	Asp
1				5					10					15	

Phe	Leu	Asp	Leu	Glu	Arg	Pro	Pro	Thr	Thr	Pro	Gln	Asn	Glu	Glu	Ile
			20					25					30		

Arg	Ala	Val	Gly	Arg	Leu	Lys	Arg	Glu	Arg	Ser	Met	Ser	Glu	Asn	Ala
		35					40					45			

Val	Arg	Gln	Asn	Gly	Gln	Leu	Val	Arg	Asn	Asp	Ser	Leu	Val	Thr	Pro
	50					55					60				

Ser	Pro	Gln	Gln	Ala	Arg	Val	Cys	Pro	Pro	His	Met	Leu	Pro	Glu	Asp
65					70					75					80

Gly	Ala	Asn	Leu	Ser	Ser	Ala	Arg	Gly	Ile	Leu	Ser	Leu	Ile	Gln	Ser
				85					90					95	

Ser	Thr	Arg	Arg	Ala	Tyr	Gln	Gln	Ile	Leu	Asp	Val	Leu	Asp	Glu	Asn
		100						105					110		

Arg	Arg	Pro	Val	Leu	Arg	Gly	Gly	Ser	Xaa	Ala	Ala	Thr	Ser	Asn	Pro
		115					120					125			

His	His	Asp	Asn	Val	Arg	Tyr	Gly	Ile	Ser	Asn	Ile	Asp	Thr	Thr	Ile
	130					135					140				

Glu	Gly	Thr	Ser	Asp	Asp	Leu	Thr	Val	Val	Asp	Ala	Ala	Ser	Leu	Arg
145					150					155					160

Arg	Gln	Ile	Ile	Lys	Leu	Asn	Arg	Arg	Leu	Gln	Leu	Leu	Glu	Glu	Glu
				165					170					175	

Asn	Lys	Glu	Arg	Ala	Lys	Arg	Glu	Met	Val	Met	Tyr	Ser	Ile	Thr	Val
			180					185					190		

Ala	Phe	Trp	Leu	Leu	Asn	Ser	Trp	Leu	Trp	Phe	Arg	Arg
		195					200					205

4287

<210> 4714

<211> 408

<212> PRT

<213> Homo sapiens

<400> 4714

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Ile Pro Leu Pro Phe Gly Lys Pro Gln Pro Gln Ser Arg Arg Arg Pro
 1              5              10              15

Leu Arg Pro Pro Ser Ala Ser Ser Ala Ser Arg Pro Ala Arg Gly Ser
          20              25              30

Leu Arg Arg Ala Met Ala Thr Ser Pro Gln Lys Ser Pro Ser Val Pro
          35              40              45

Lys Ser Pro Thr Pro Lys Ser Pro Pro Ser Arg Lys Lys Asp Asp Ser
          50              55              60

Phe Leu Gly Lys Leu Gly Gly Thr Leu Ala Arg Arg Lys Lys Ala Lys
 65              70              75              80

Glu Val Ser Glu Leu Gln Glu Glu Gly Met Asn Ala Ile Asn Leu Pro
          85              90              95

Leu Ser Pro Ile Pro Phe Glu Leu Asp Pro Glu Asp Thr Met Leu Glu
          100             105             110

Glu Asn Glu Val Arg Thr Met Val Asp Pro Asn Ser Arg Ser Thr Pro
          115             120             125

Lys Leu Gln Glu Leu Met Lys Val Leu Ile Asp Trp Ile Asn Asp Val
          130             135             140

Leu Val Gly Glu Arg Ile Ile Val Lys Asp Leu Ala Glu Asp Leu Tyr
          145             150             155             160

Asp Gly Gln Val Leu Gln Lys Leu Phe Glu Lys Leu Glu Ser Glu Lys
          165             170             175

Leu Asn Val Ala Glu Val Thr Gln Ser Glu Ile Ala Gln Lys Gln Lys
          180             185             190

Leu Gln Thr Val Leu Glu Lys Ile Asn Glu Thr Leu Lys Leu Pro Pro
          195             200             205

Arg Ser Ile Lys Trp Asn Val Asp Ser Val His Ala Lys Ser Leu Val
          210             215             220

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4288

Ala Ile Leu His Leu Leu Val Ala Leu Ser Gln Tyr Phe Arg Ala Pro
 225 230 235 240
 Ile Arg Leu Pro Asp His Val Ser Ile Gln Val Val Val Val Gln Lys
 245 250 255
 Arg Glu Gly Ile Leu Gln Ser Arg Gln Ile Gln Glu Glu Ile Thr Gly
 260 265 270
 Asn Thr Glu Ala Leu Ser Gly Arg His Glu Arg Asp Ala Phe Asp Thr
 275 280 285
 Leu Phe Asp His Ala Pro Asp Lys Leu Asn Val Val Lys Lys Thr Leu
 290 295 300
 Ile Thr Phe Val Asn Lys His Leu Asn Lys Leu Asn Leu Glu Val Thr
 305 310 315 320
 Glu Leu Glu Thr Gln Phe Ala Asp Gly Val Tyr Leu Val Leu Leu Met
 325 330 335
 Gly Leu Leu Glu Gly Tyr Phe Val Pro Leu His Ser Phe Phe Leu Thr
 340 345 350
 Pro Asp Ser Phe Glu Gln Lys Val Leu Asn Val Ser Phe Ala Phe Glu
 355 360 365
 Leu Met Gln Asp Gly Gly Leu Glu Lys Pro Lys Pro Arg Pro Glu Asp
 370 375 380
 Ile Val Asn Cys Asp Leu Lys Ser Thr Leu Arg Val Leu Tyr Asn Leu
 385 390 395 400
 Phe Thr Lys Tyr Arg Asn Val Glu
 405

<210> 4715

<211> 314

<212> PRT

<213> Homo sapiens

<400> 4715

Asp Pro Tyr Ser Gln Ser Ala Thr Ala Phe Asn Glu Met Ile Gln Glu
 1 5 10 15

Asn Gly Tyr Asn Phe Asp Arg Ser Ser Thr Phe Ser Gly Ile Lys
 20 25 30

Glu Leu Ala Arg Arg Phe Ala Leu Thr Phe Gly Leu Asp Gln Leu Lys

	35					40					45				
Thr	Arg	Glu	Ala	Ile	Ala	Met	Leu	His	Lys	Asp	Gly	Ile	Glu	Phe	Ala
	50					55					60				
Phe	Lys	Glu	Pro	Asn	Pro	Gln	Gly	Glu	Ser	His	Pro	Pro	Leu	Asn	Leu
65					70					75					80
Ala	Phe	Leu	Asp	Ile	Leu	Ser	Glu	Phe	Ser	Ser	Lys	Leu	Leu	Arg	Gln
				85					90					95	
Asp	Lys	Arg	Thr	Val	Tyr	Val	Tyr	Leu	Glu	Lys	Phe	Met	Thr	Phe	Gln
			100					105					110		
Met	Ser	Leu	Arg	Arg	Glu	Asp	Val	Trp	Leu	Pro	Leu	Met	Ser	Tyr	Arg
		115					120					125			
Asn	Ser	Leu	Leu	Ala	Gly	Gly	Asp	Asp	Asp	Thr	Met	Ser	Val	Ile	Ser
	130					135					140				
Gly	Ile	Ser	Ser	Arg	Gly	Ser	Thr	Val	Arg	Ser	Lys	Lys	Ser	Lys	Pro
145					150					155					160
Ser	Thr	Gly	Lys	Arg	Lys	Val	Val	Glu	Gly	Met	Gln	Leu	Ser	Leu	Thr
				165					170					175	
Glu	Glu	Ser	Ser	Ser	Ser	Asp	Ser	Met	Trp	Leu	Ser	Arg	Glu	Gln	Thr
			180					185					190		
Leu	His	Thr	Pro	Val	Met	Met	Gln	Thr	Pro	Gln	Leu	Thr	Ser	Thr	Ile
		195					200					205			
Met	Arg	Glu	Pro	Lys	Arg	Leu	Arg	Pro	Glu	Asp	Ser	Phe	Met	Ser	Val
	210					215					220				
Tyr	Pro	Met	Gln	Thr	Glu	His	His	Gln	Thr	Pro	Leu	Asp	Tyr	Asn	Arg
225					230					235					240
Arg	Gly	Thr	Ser	Leu	Met	Glu	Asp	Asp	Glu	Glu	Pro	Ile	Val	Glu	Asp
				245					250					255	
Val	Met	Met	Ser	Ser	Glu	Gly	Arg	Ile	Glu	Asp	Leu	Asn	Glu	Gly	Met
			260					265					270		
Asp	Phe	Asp	Thr	Met	Asp	Ile	Asp	Leu	Pro	Pro	Ser	Lys	Asn	Arg	Arg
		275					280					285			
Glu	Arg	Thr	Glu	Leu	Lys	Pro	Asp	Phe	Phe	Asp	Pro	Ala	Ser	Ile	Met
	290					295					300				
Asp	Glu	Ser	Val	Leu	Gly	Val	Ser	Met	Phe						

4290

305

310

<210> 4716

<211> 287

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (180)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4716

Arg	Pro	Cys	Pro	Glu	Glu	Ala	Glu	Ile	Gly	Ile	Ala	Met	Gly	Ser	Gly
1				5					10					15	

Thr	Ala	Val	Ala	Lys	Thr	Ala	Ser	Glu	Met	Val	Leu	Ala	Asp	Asp	Asn
			20					25					30		

Phe	Ser	Thr	Ile	Val	Ala	Ala	Val	Glu	Glu	Gly	Arg	Ala	Ile	Tyr	Asn
		35					40					45			

Asn	Met	Lys	Gln	Phe	Ile	Arg	Tyr	Leu	Ile	Ser	Ser	Asn	Val	Gly	Glu
	50					55					60				

Val	Val	Cys	Ile	Phe	Leu	Thr	Ala	Ala	Leu	Gly	Leu	Pro	Glu	Ala	Leu
65					70					75					80

Ile	Pro	Val	Gln	Leu	Leu	Trp	Val	Asn	Leu	Val	Thr	Asp	Gly	Leu	Pro
			85						90					95	

Ala	Thr	Ala	Leu	Gly	Phe	Asn	Pro	Pro	Asp	Leu	Asp	Ile	Met	Asp	Arg
			100					105					110		

Pro	Pro	Arg	Ser	Pro	Lys	Glu	Pro	Leu	Ile	Ser	Gly	Trp	Leu	Phe	Phe
		115					120					125			

Arg	Tyr	Met	Ala	Ile	Gly	Gly	Tyr	Val	Gly	Ala	Ala	Thr	Val	Gly	Ala
	130					135					140				

Ala	Ala	Trp	Trp	Phe	Leu	Tyr	Ala	Glu	Asp	Gly	Pro	His	Val	Asn	Tyr
145					150					155					160

Ser	Gln	Leu	Thr	His	Phe	Met	Gln	Cys	Thr	Glu	Asp	Asn	Thr	His	Phe
				165					170					175	

Glu	Gly	Ile	Xaa	Cys	Glu	Val	Phe	Glu	Ala	Pro	Glu	Pro	Met	Thr	Met
			180					185					190		

4291

Ala Leu Ser Val Leu Val Thr Ile Glu Met Cys Asn Ala Leu Asn Ser
 195 200 205

Leu Ser Glu Asn Gln Ser Leu Leu Arg Met Pro Pro Trp Val Asn Ile
 210 215 220

Trp Leu Leu Gly Ser Ile Cys Leu Ser Met Ser Leu His Phe Leu Ile
 225 230 235 240

Leu Tyr Val Asp Pro Leu Pro Met Ile Phe Lys Leu Arg Ala Leu Asp
 245 250 255

Leu Thr Gln Trp Leu Met Val Leu Lys Ile Ser Leu Pro Val Ile Gly
 260 265 270

Leu Asp Glu Ile Leu Lys Phe Val Ala Arg Asn Tyr Leu Glu Gly
 275 280 285

<210> 4717

<211> 47

<212> PRT

<213> Homo sapiens

<400> 4717

Gln Arg Pro Cys Gly Leu Gln Gly Pro Lys Tyr Leu Leu Ser Gly Leu
 1 5 10 15

Leu Leu Lys Lys Phe Ser Gln Ala Trp Trp Trp Ala Pro Val Ile Pro
 20 25 30

Ala Thr Arg Glu Ser Glu Ala Gly Glu Ser Leu Glu Pro Gly Arg
 35 40 45

<210> 4718

<211> 436

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (382)

<223> Xaa equals any of the naturally occurring L-amino acids

4292

<400> 4718

Ala Xaa Asp Pro Ser Arg Val Met Asp Gln His Lys Leu Thr Arg Asp
 1 5 10 15
 Gln Trp Glu Asp Arg Ile Gln Val Trp His Ala Glu His Arg Gly Met
 20 25 30
 Leu Lys Asp Asn Ala Met Leu Glu Tyr Leu Lys Ile Ala Gln Asp Leu
 35 40 45
 Glu Met Tyr Gly Ile Asn Tyr Phe Glu Ile Lys Asn Lys Lys Gly Thr
 50 55 60
 Asp Leu Trp Leu Gly Val Asp Ala Leu Gly Leu Asn Ile Tyr Glu Lys
 65 70 75 80
 Asp Asp Lys Leu Thr Pro Lys Ile Gly Phe Pro Trp Ser Glu Ile Arg
 85 90 95
 Asn Ile Ser Phe Asn Asp Lys Lys Phe Val Ile Lys Pro Ile Asp Lys
 100 105 110
 Lys Ala Pro Asp Phe Val Phe Tyr Ala Pro Arg Leu Arg Ile Asn Lys
 115 120 125
 Arg Ile Leu Gln Leu Cys Met Gly Asn His Glu Leu Tyr Met Arg Arg
 130 135 140
 Arg Lys Pro Asp Thr Ile Glu Val Gln Gln Met Lys Ala Gln Ala Arg
 145 150 155 160
 Glu Glu Lys His Gln Lys Gln Leu Glu Arg Gln Gln Leu Glu Thr Glu
 165 170 175
 Lys Lys Arg Arg Glu Thr Val Glu Arg Glu Lys Glu Gln Met Met Arg
 180 185 190
 Glu Lys Glu Glu Leu Met Leu Arg Leu Gln Asp Tyr Glu Glu Lys Thr
 195 200 205
 Lys Lys Ala Glu Arg Glu Leu Ser Glu Gln Ile Gln Arg Ala Leu Gln
 210 215 220
 Leu Glu Glu Glu Arg Lys Arg Ala Gln Glu Glu Ala Glu Arg Leu Glu
 225 230 235 240
 Ala Asp Arg Met Ala Ala Leu Arg Ala Lys Glu Glu Leu Glu Arg Gln
 245 250 255
 Ala Val Asp Gln Ile Lys Ser Gln Glu Gln Leu Ala Ala Glu Leu Ala

4293

260					265					270					
Glu	Tyr	Thr	Ala	Lys	Ile	Ala	Leu	Leu	Glu	Glu	Ala	Arg	Arg	Arg	Lys
275					280					285					
Glu	Asp	Glu	Val	Glu	Glu	Trp	Gln	His	Arg	Ala	Lys	Glu	Ala	Gln	Asp
290					295					300					
Asp	Leu	Val	Lys	Thr	Lys	Glu	Glu	Leu	His	Leu	Val	Met	Thr	Ala	Pro
305					310					315					320
Pro	Pro	Pro	Pro	Pro	Pro	Val	Tyr	Glu	Pro	Val	Ser	Tyr	His	Val	Gln
325					330					335					
Glu	Ser	Leu	Gln	Asp	Glu	Gly	Ala	Glu	Pro	Thr	Gly	Tyr	Ser	Ala	Glu
340					345					350					
Leu	Ser	Ser	Glu	Gly	Ile	Arg	Asp	Asp	Arg	Asn	Glu	Glu	Lys	Arg	Ile
355					360					365					
Thr	Glu	Ala	Glu	Lys	Asn	Glu	Arg	Val	Gln	Arg	Gln	Leu	Xaa	Thr	Leu
370					375					380					
Ser	Ser	Glu	Leu	Ser	Gln	Ala	Arg	Asp	Glu	Asn	Lys	Arg	Thr	His	Asn
385					390					395					400
Asp	Ile	Ile	His	Asn	Glu	Asn	Met	Arg	Gln	Gly	Arg	Asp	Lys	Tyr	Lys
405					410					415					
Thr	Leu	Arg	Gln	Ile	Arg	Gln	Gly	Asn	Thr	Lys	Gln	Arg	Ile	Asp	Glu
420					425					430					
Phe	Glu	Ala	Leu												
435															

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<210> 4719
<211> 173
<212> PRT
<213> Homo sapiens
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<400> 4719
Leu Gln Val Val Gln Ala Asp Ile Ala Ser Ile Asp Ser Asp Ala Val
  1                      5                      10                      15
Val His Pro Thr Asn Thr Asp Phe Tyr Ile Gly Gly Glu Val Gly Asn
          20                      25                      30
Thr Leu Glu Lys Lys Gly Gly Lys Glu Phe Val Glu Ala Val Leu Glu
          35                      40                      45

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4294

Leu Arg Lys Lys Asn Gly Pro Leu Glu Val Ala Gly Ala Ala Val Ser
 50 55 60

Ala Gly His Gly Leu Pro Ala Lys Phe Val Ile His Cys Asn Ser Pro
 65 70 75 80

Val Trp Gly Ala Asp Lys Cys Glu Glu Leu Leu Glu Lys Thr Val Lys
 85 90 95

Asn Cys Leu Ala Leu Ala Asp Asp Lys Lys Leu Lys Ser Ile Ala Phe
 100 105 110

Pro Ser Ile Gly Ser Gly Arg Asn Gly Phe Pro Lys Gln Thr Ala Ala
 115 120 125

Gln Leu Ile Leu Lys Ala Ile Ser Ser Tyr Phe Val Ser Thr Met Ser
 130 135 140

Ser Ser Ile Lys Thr Val Tyr Phe Val Leu Phe Asp Ser Glu Ser Ile
 145 150 155 160

Gly Ile Tyr Val Gln Glu Met Ala Lys Leu Asp Ala Asn
 165 170

<210> 4720

<211> 84

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4720

Arg Gly Asp Pro Phe Pro Leu Val Gly Phe Gly Ser Cys Val Ser Ser
 1 5 10 15

4295

Leu Cys Lys Thr Leu His Gln Gly Tyr Pro Gly His Glu Gly Val Pro
 20 25 30
 Pro Val Pro Val Tyr Phe Cys Thr Arg Thr Ser Asn Lys Thr Gly Arg
 35 40 45
 Cys Leu Gly Asn Cys His Gly Val Arg Glu Arg Asp Ala Phe Tyr Ser
 50 55 60
 Xaa Gly Val Asp Asp Xaa Thr Xaa Val Ile Asn Cys Ile Cys Trp Glu
 65 70 75 80
 Lys Val Glu Tyr

<210> 4721
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 4721
 Arg Gly Gly Gly Cys Ser Glu Pro Arg Ser Arg His Cys Thr Pro Ala
 1 5 10 15
 Trp Gly Thr Arg Val Arg Leu Ser Leu Lys Lys Lys Lys Lys Glu Lys
 20 25 30
 Lys Ile Arg Asp Ile Val His Ile Pro Leu Leu Cys Leu His Arg Cys
 35 40 45
 Pro

<210> 4722
 <211> 267
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (88)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (90)
 <223> Xaa equals any of the naturally occurring L-amino acids

4296

<220>
 <221> SITE
 <222> (95)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (140)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (162)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (165)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (173)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 4722
 Asn Asn Leu Asn Ser Val Leu Ala Glu Arg Leu Glu Lys Trp Leu Gln
 1 5 10 15
 Leu Met Leu Met Trp His Pro Arg Gln Arg Gly Thr Asp Pro Thr Tyr
 20 25 30
 Gly Pro Asn Gly Cys Phe Lys Ala Leu Asp Asp Ile Leu Asn Leu Lys
 35 40 45
 Leu Val His Ile Leu Asn Met Val Thr Gly Thr Ile His Thr Tyr Pro
 50 55 60
 Val Thr Glu Asp Glu Ser Leu Gln Ser Leu Lys Ala Arg Ile Gln Gln
 65 70 75 80
 Asp Thr Gly Ile Pro Glu Glu Xaa Gln Xaa Leu Leu Gln Glu Xaa Gly
 85 90 95
 Leu Ala Leu Ile Pro Asp Lys Pro Ala Thr Gln Cys Ile Ser Asp Gly
 100 105 110
 Lys Leu Asn Glu Gly His Thr Leu Asp Met Asp Leu Val Phe Leu Phe
 115 120 125

4297

Asp Asn Ser Lys Ile Thr Tyr Glu Thr Gln Ile Xaa Pro Arg Pro Gln
 130 135 140
 Pro Glu Ser Val Ser Cys Ile Leu Gln Glu Pro Lys Arg Asn Leu Ala
 145 150 155 160
 Phe Xaa Gln Leu Xaa Lys Val Trp Gly Gln Val Trp Xaa Ser Ile Gln
 165 170 175
 Thr Leu Lys Glu Asp Cys Asn Arg Leu Gln Gln Gly Gln Arg Ala Ala
 180 185 190
 Met Met Asn Leu Leu Arg Asn Asn Ser Cys Leu Ser Lys Met Lys Asn
 195 200 205
 Ser Met Ala Ser Met Ser Gln Gln Leu Lys Ala Lys Leu Asp Phe Phe
 210 215 220
 Lys Thr Ser Ile Gln Ile Asp Leu Glu Lys Tyr Ser Glu Gln Thr Glu
 225 230 235 240
 Phe Gly Ile Thr Ser Asp Lys Leu Leu Leu Ala Trp Arg Glu Met Glu
 245 250 255
 Gln Ala Val Glu Leu Cys Gly Arg Glu Asn Glu
 260 265

<210> 4723

<211> 101

<212> PRT

<213> Homo sapiens

<400> 4723

His Phe Leu Thr Cys Gly Arg Glu Lys Leu Pro Asn Phe Phe Phe Leu
 1 5 10 15
 Leu Leu Asn Cys Asn Ile Val Glu Asp Phe Phe Phe Leu Phe Ser Leu
 20 25 30
 Ile Gly Ala Phe Cys Thr Gly Phe Val Cys Val Cys Val Cys Val Cys
 35 40 45
 Ala Arg Ala Cys Val Leu Ile Cys Phe Leu Ile His Ser Tyr Pro Leu
 50 55 60
 Cys Leu Ser Tyr His Cys Leu Pro Gly Tyr Leu Lys Gln Val His Thr
 65 70 75 80
 Phe Glu Lys Lys Lys Lys Cys Cys Leu Lys Asn Val Phe Ser Cys Cys

4298

85

90

95

Ser Lys Tyr Phe Ala
100

<210> 4724

<211> 163

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (49)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4724

Arg Ser Pro Asp Ser Ser Gln Val Leu Gly Ala Arg Asp Ala Asp Ser
1 5 10 15

Ser Ser Gly Cys Phe Ser Arg Cys Ser Trp Ala Leu Ala Ser Asp Gly
20 25 30

Ala Leu Arg Gly Cys Phe Pro Gly Ala Arg Phe Cys Ser Thr Thr Ser
35 40 45

Xaa Glu Gly Asn Thr Thr Phe Thr Gly Ser Ala Ala Ala Pro Gly Pro
50 55 60

Ser Ala Ser Arg Gln Gly Pro Lys Pro Gly Pro Pro Ala Ala Thr Val
65 70 75 80

Ala Arg Gln Thr Ser Arg Val Ser Pro Ala Pro Pro Cys Ser Leu Arg
85 90 95

Pro Gly Leu Arg His Glu Ser Ala Pro Ser Gly Ile Gly Asp Val Thr
100 105 110

Ala Arg Gly Ala Leu Arg Gly Leu Gly Cys Thr Val Arg Val Thr Ala
115 120 125

Ala Cys Ala Gly Asn His Gly Cys Ser Gln Met Leu Ala Leu Arg Asn
130 135 140

Ser Lys Trp Glu Thr Ala Ser Arg Arg Gly Val Leu Thr Gly Arg Leu
145 150 155 160

Gly Ile Lys

4299

<210> 4725

<211> 91

<212> PRT

<213> Homo sapiens

<400> 4725

Glu Ser Leu Trp Ala Phe Cys Leu Ser Leu Leu Glu Arg Leu Ala Cys
 1 5 10 15

Cys Ser Leu Leu Tyr Pro Glu Val Cys Leu Trp Asp Phe Ser Pro Val
 20 25 30

Ala Val Glu Thr Arg Arg Pro Thr Leu Phe Glu Thr Gln Met Leu Leu
 35 40 45

Ser Leu Ala Ser Pro Ser Leu Ser Ser Pro Asn Glu Pro Thr Phe Cys
 50 55 60

Thr Ser Thr Arg Met Pro Gly Arg Leu Gly Pro Gln Arg Leu Leu Phe
 65 70 75 80

Gln Asn Leu Trp Lys Pro Arg Leu Asn Val Pro
 85 90

<210> 4726

<211> 72

<212> PRT

<213> Homo sapiens

<400> 4726

Ile Ser Ser His Leu Val Ser Lys Leu Leu Leu Thr Met Val Val Leu
 1 5 10 15

Leu Glu Gln Ser Phe Gln Ala Pro Leu Arg Thr Ile Phe Asn Ser Asp
 20 25 30

Thr Lys Gly Lys Thr Gly Cys Tyr Phe Cys Phe Val Val Gln Leu Val
 35 40 45

Leu Tyr Ser His Met Leu Tyr Ile Leu Asn Ser Pro Val Leu Phe Arg
 50 55 60

Leu Val Asn Arg Thr Ile Ser Met
 65 70

4300

<210> 4727

<211> 251

<212> PRT

<213> Homo sapiens

<400> 4727

Gly Gly Leu Ala Trp Arg Ala Leu Arg Thr Ser Gly Thr Leu Leu Arg
 1 5 10 15

Val Glu Arg Leu Leu Leu Glu Asp Tyr Cys Pro Glu Glu Lys Met Phe
 20 25 30

Gly Phe His Lys Pro Lys Met Tyr Arg Ser Ile Glu Gly Cys Cys Ile
 35 40 45

Cys Arg Ala Lys Ser Ser Ser Ser Arg Phe Thr Asp Ser Lys Arg Tyr
 50 55 60

Glu Lys Asp Phe Gln Ser Cys Phe Gly Leu His Glu Thr Arg Ser Gly
 65 70 75 80

Asp Ile Cys Asn Ala Cys Val Leu Leu Val Lys Arg Trp Lys Lys Leu
 85 90 95

Pro Ala Gly Ser Lys Lys Asn Trp Asn His Val Val Asp Ala Arg Ala
 100 105 110

Gly Pro Ser Leu Lys Thr Thr Leu Lys Pro Lys Lys Val Lys Thr Leu
 115 120 125

Ser Gly Asn Arg Ile Lys Ser Asn Gln Ile Ser Lys Leu Gln Lys Glu
 130 135 140

Phe Lys Arg His Asn Ser Asp Ala His Ser Thr Thr Ser Ser Ala Ser
 145 150 155 160

Pro Ala Gln Ser Pro Cys Tyr Ser Asn Gln Ser Asp Asp Gly Ser Asp
 165 170 175

Thr Glu Met Ala Ser Gly Ser Asn Arg Thr Pro Val Phe Ser Phe Leu
 180 185 190

Asp Leu Thr Tyr Trp Lys Arg Gln Lys Ile Cys Cys Gly Ile Ile Tyr
 195 200 205

Lys Gly Arg Phe Gly Glu Val Leu Ile Asp Thr His Leu Phe Lys Pro
 210 215 220

Cys Cys Ser Asn Lys Lys Ala Ala Ala Glu Lys Pro Glu Glu Gln Gly
 225 230 235 240

Pro Glu Pro Leu Pro Ile Ser Thr Gln Glu Trp
245 250

<213> Homo sapiens

Cys Cys Asp Ala Cys Phe Gln Asp Pro Tyr Gly Val Ala Val Gly Gly
1 5 10 15

Thr Val Gly His Cys Leu Cys Thr Gly Leu Ala Val Ile Gly Gly Arg
20 25 30

Met Ile Ala Gln Lys Ile Ser Val Arg Thr Gly Lys Ser
35 40 45

<213> Homo sapiens

<223> Xaa equals any of the naturally occurring L-amino acids

<223> Xaa equals any of the naturally occurring L-amino acids

<223> Xaa equals any of the naturally occurring L-amino acids

Leu Pro Ala Gly Met Ser Ala Lys Met Leu Gly Gly Val Phe Lys Ile
1 5 10 15

Asp Trp Ile Cys Arg Arg Glu Leu Pro Phe Thr Lys Ser Ala His Leu
20 25 30

Thr Asn Pro Trp Asn Glu His Lys Pro Val Lys Ile Gly Arg Asp Gly
35 40 45

4302

Gln Glu Ile Glu Leu Glu Cys Gly Thr Gln Leu Cys Leu Leu Phe Pro
 50 55 60

Pro Asp Glu Ser Ile Asp Leu Tyr Gln Val Ile His Lys Met Arg His
 65 70 75 80

Lys Arg Arg Met His Ser Gln Pro Arg Ser Arg Gly Arg Pro Ser Arg
 85 90 95

Glu Asn Gln Ser Xaa Xaa Xaa Glu Gly Val Asp Gln Lys Ile Met Ile
 100 105 110

Phe Ile Thr Ala Glu Arg Asn Gln Gly Leu Thr Ile Pro Leu Ser Phe
 115 120 125

Thr Arg Asp Gln Gly Ile
 130

<210> 4730

<211> 193

<212> PRT

<213> Homo sapiens

<400> 4730

Leu Val Pro Pro Lys Ser Trp Thr Ile Gln Val Gly Leu Val Ser Leu
 1 5 10 15

Leu Asp Asn Pro Ala Pro Ser His Leu Val Glu Lys Ile Val Tyr His
 20 25 30

Ser Lys Tyr Lys Pro Lys Arg Leu Gly Asn Asp Ile Ala Leu Met Lys
 35 40 45

Leu Ala Gly Pro Leu Thr Phe Asn Glu Met Ile Gln Pro Val Cys Leu
 50 55 60

Pro Asn Ser Glu Glu Asn Phe Pro Asp Gly Lys Val Cys Trp Thr Ser
 65 70 75 80

Gly Trp Gly Ala Thr Glu Asp Gly Ala Gly Asp Ala Ser Pro Val Leu
 85 90 95

Asn His Ala Ala Val Pro Leu Ile Ser Asn Lys Ile Cys Asn His Arg
 100 105 110

Asp Val Tyr Gly Gly Ile Ile Ser Pro Ser Met Leu Cys Ala Gly Tyr
 115 120 125

4303

Leu Thr Gly Gly Val Asp Ser Cys Gln Gly Asp Ser Gly Gly Pro Leu
 130 135 140

Val Cys Gln Glu Arg Arg Leu Trp Lys Leu Val Gly Ala Thr Ser Phe
 145 150 155 160

Gly Ile Gly Cys Ala Glu Val Asn Lys Pro Gly Val Tyr Thr Arg Val
 165 170 175

Thr Ser Phe Leu Asp Trp Ile His Glu Gln Met Glu Arg Asp Leu Lys
 180 185 190

Thr

<210> 4731

<211> 426

<212> PRT

<213> Homo sapiens

<400> 4731

Cys His Arg Gln Arg Cys Leu Leu Pro Ser Asp Cys Glu Lys Thr
 1 5 10 15

Ile Thr Gly Pro Arg Asn Cys His Ala Asn Arg Leu Pro Cys Ile Tyr
 20 25 30

Leu Val Asp Ser Gly Gly Ala Tyr Leu Pro Arg Gln Ala Asp Val Phe
 35 40 45

Pro Asp Arg Asp His Phe Gly Arg Thr Phe Tyr Asn Gln Ala Ile Met
 50 55 60

Ser Ser Lys Asn Ile Ala Gln Ile Ala Val Val Met Gly Ser Cys Thr
 65 70 75 80

Ala Gly Gly Ala Tyr Val Pro Ala Met Ala Asp Glu Asn Ile Ile Val
 85 90 95

Arg Lys Gln Gly Thr Ile Phe Leu Ala Gly Pro Pro Leu Val Lys Ala
 100 105 110

Ala Thr Gly Glu Glu Val Ser Ala Glu Asp Leu Gly Gly Ala Asp Leu
 115 120 125

His Cys Arg Lys Ser Gly Val Ser Asp His Trp Ala Leu Asp Asp His
 130 135 140

His Ala Leu His Leu Thr Arg Lys Val Val Arg Asn Leu Asn Tyr Gln

4304

145		150		155		160
Lys Lys Leu Asp Val Thr Ile Glu Pro Ser Glu Glu Pro Leu Phe Pro						
	165		170		175	
Ala Asp Glu Leu Tyr Gly Ile Val Gly Ala Asn Leu Lys Arg Ser Phe						
	180		185		190	
Asp Val Arg Glu Val Ile Ala Arg Ile Val Asp Gly Ser Arg Phe Thr						
	195		200		205	
Glu Phe Lys Ala Phe Tyr Gly Asp Thr Leu Val Thr Gly Phe Ala Arg						
	210		215		220	
Ile Phe Gly Tyr Pro Val Gly Ile Val Gly Asn Asn Gly Val Leu Phe						
	225		230		235	
Ser Glu Ser Ala Lys Lys Gly Thr His Phe Val Gln Leu Cys Cys Gln						
	245		250		255	
Arg Asn Ile Pro Leu Leu Phe Leu Gln Asn Ile Thr Gly Phe Met Val						
	260		265		270	
Gly Arg Glu Tyr Glu Ala Glu Gly Ile Ala Lys Asp Gly Ala Lys Met						
	275		280		285	
Val Ala Ala Val Ala Cys Ala Gln Val Pro Lys Ile Thr Leu Ile Ile						
	290		295		300	
Gly Gly Ser Tyr Gly Ala Gly Asn Tyr Gly Met Cys Gly Arg Ala Tyr						
	305		310		315	
Ser Pro Arg Phe Leu Tyr Ile Trp Pro Asn Ala Arg Ile Ser Val Met						
	325		330		335	
Gly Gly Glu Gln Ala Ala Asn Val Leu Ala Thr Ile Thr Lys Asp Gln						
	340		345		350	
Arg Ala Arg Glu Gly Lys Gln Phe Ser Ser Ala Asp Glu Ala Ala Leu						
	355		360		365	
Lys Glu Pro Ile Ile Lys Lys Phe Glu Glu Glu Gly Asn Pro Tyr Tyr						
	370		375		380	
Ser Ser Ala Arg Val Trp Asp Asp Gly Ile Ile Asp Pro Ala Asp Thr						
	385		390		395	
Arg Leu Val Leu Gly Leu Ser Phe Ser Ala Ala Leu Asn Ala Pro Ile						
	405		410		415	
Glu Lys Thr Asp Phe Gly Ile Phe Arg Met						

4305

420

425

<210> 4732

<211> 651

<212> PRT

<213> Homo sapiens

<400> 4732

Tyr Phe Thr Asn Glu Thr Asp Asp Ile Ala Asn Leu Glu Ala Ser Val
 1 5 10 15

Leu Glu Asn Pro Ser His Val Gln Leu Trp Leu Lys Leu Ala Tyr Lys
 20 25 30

Tyr Leu Asn Gln Asn Glu Gly Glu Cys Ser Glu Ser Leu Asp Ser Ala
 35 40 45

Leu Asn Val Leu Ala Arg Ala Leu Glu Asn Asn Lys Asp Asn Pro Glu
 50 55 60

Ile Trp Cys His Tyr Leu Arg Leu Phe Ser Lys Arg Gly Thr Lys Asp
 65 70 75 80

Glu Val Gln Glu Met Cys Glu Thr Ala Val Glu Tyr Ala Pro Asp Tyr
 85 90 95

Gln Ser Phe Trp Thr Phe Leu His Leu Glu Ser Thr Phe Glu Glu Lys
 100 105 110

Asp Tyr Val Cys Glu Arg Met Leu Glu Phe Leu Met Gly Ala Ala Lys
 115 120 125

Gln Glu Thr Ser Asn Ile Leu Ser Phe Gln Leu Leu Glu Ala Leu Leu
 130 135 140

Phe Arg Val Gln Leu His Ile Phe Thr Gly Arg Cys Gln Ser Ala Leu
 145 150 155 160

Ala Ile Leu Gln Asn Ala Leu Lys Ser Ala Asn Asp Gly Ile Val Ala
 165 170 175

Glu Tyr Leu Lys Thr Ser Asp Arg Cys Leu Ala Trp Leu Ala Tyr Ile
 180 185 190

His Leu Ile Glu Phe Asn Ile Leu Pro Ser Lys Phe Tyr Asp Pro Ser
 195 200 205

Asn Asp Asn Pro Ser Arg Ile Val Asn Thr Glu Ser Phe Val Met Pro
 210 215 220

4306

Trp	Gln	Ala	Val	Gln	Asp	Val	Lys	Thr	Asn	Pro	Asp	Met	Leu	Leu	Ala	225	230	235	240
Val	Phe	Glu	Asp	Ala	Val	Lys	Ala	Cys	Thr	Asp	Glu	Ser	Leu	Ala	Val	245	250	255	
Glu	Glu	Arg	Ile	Glu	Ala	Cys	Leu	Pro	Leu	Tyr	Thr	Asn	Met	Ile	Ala	260	265	270	
Leu	His	Gln	Leu	Leu	Glu	Arg	Tyr	Glu	Ala	Ala	Met	Glu	Leu	Cys	Lys	275	280	285	
Ser	Leu	Leu	Glu	Ser	Cys	Pro	Ile	Asn	Cys	Gln	Leu	Leu	Glu	Ala	Leu	290	295	300	
Val	Ala	Leu	Tyr	Leu	Gln	Thr	Asn	Gln	His	Asp	Lys	Ala	Arg	Ala	Val	305	310	315	320
Trp	Leu	Thr	Ala	Phe	Glu	Lys	Asn	Pro	Gln	Asn	Ala	Glu	Val	Phe	Tyr	325	330	335	
His	Met	Cys	Lys	Phe	Phe	Ile	Leu	Gln	Asn	Arg	Gly	Asp	Asn	Leu	Leu	340	345	350	
Pro	Phe	Leu	Arg	Lys	Phe	Ile	Ala	Ser	Phe	Phe	Lys	Pro	Gly	Phe	Glu	355	360	365	
Lys	Tyr	Asn	Asn	Leu	Asp	Leu	Phe	Arg	Tyr	Leu	Leu	Asn	Ile	Pro	Gly	370	375	380	
Pro	Ile	Asp	Ile	Pro	Ser	Arg	Leu	Cys	Lys	Gly	Asn	Phe	Asp	Asp	Asp	385	390	395	400
Met	Phe	Asn	His	Gln	Val	Pro	Tyr	Leu	Trp	Leu	Ile	Tyr	Cys	Leu	Cys	405	410	415	
His	Pro	Leu	Gln	Ser	Ser	Ile	Lys	Glu	Thr	Val	Glu	Ala	Tyr	Glu	Ala	420	425	430	
Ala	Leu	Gly	Val	Ala	Met	Arg	Cys	Asp	Ile	Val	Gln	Lys	Ile	Trp	Met	435	440	445	
Asp	Tyr	Leu	Val	Phe	Ala	Asn	Asn	Arg	Ala	Ala	Gly	Ser	Arg	Asn	Lys	450	455	460	
Val	Gln	Glu	Phe	Lys	Phe	Phe	Thr	Asp	Leu	Val	Asn	Arg	Cys	Leu	Val	465	470	475	480
Thr	Val	Pro	Ala	Arg	Tyr	Pro	Ile	Pro	Phe	Ser	Ser	Ala	Asp	Tyr	Trp	485	490	495	

4307

Ser Asn Tyr Glu Phe His Asn Arg Val Ile Phe Phe Tyr Leu Ser Cys
500 505 510

Val Pro Lys Thr Gln His Ser Lys Thr Leu Glu Arg Phe Cys Ser Val
515 520 525

Met Pro Ala Asn Ser Gly Leu Ala Leu Arg Leu Leu Gln His Glu Trp
530 535 540

Glu Glu Ser Asn Val Gln Ile Leu Lys Leu Gln Ala Lys Met Phe Thr
545 550 555 560

Tyr Asn Ile Pro Thr Cys Leu Ala Thr Trp Lys Ile Ala Ile Ala Ala
565 570 575

Glu Ile Val Leu Lys Gly Gln Arg Glu Val His Arg Leu Tyr Gln Arg
580 585 590

Ala Leu Gln Lys Leu Pro Leu Cys Ala Ser Leu Trp Lys Asp Gln Leu
595 600 605

Leu Phe Glu Ala Ser Glu Gly Gly Lys Thr Asp Asn Leu Arg Lys Leu
610 615 620

Val Ser Lys Cys Gln Glu Ile Gly Val Ser Leu Asn Glu Leu Leu Asn
625 630 635 640

Leu Asn Ser Asn Lys Thr Glu Ser Lys Asn His
645 650

<210> 4733

<211> 120

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (14)

4308

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4733

Arg	Ala	Pro	Ser	Phe	Lys	Lys	Leu	Xaa	Gly	Xaa	Pro	Pro	Xaa	Gly	Xaa
1				5					10					15	

Xaa	Arg	Glu	Xaa	Ser	Gly	Xaa	Arg	Xaa	Arg	Pro	Gln	Ser	Ala	Arg	Ala
		20						25					30		

Ala	Met	Ala	Leu	Leu	Leu	Ser	Val	Leu	Arg	Val	Leu	Leu	Gly	Gly	Phe
		35					40					45			

Phe	Ala	Leu	Val	Gly	Leu	Ala	Lys	Leu	Ser	Glu	Glu	Ile	Ser	Ala	Pro
		50				55					60				

Val	Ser	Glu	Arg	Met	Asn	Ala	Leu	Phe	Val	Gln	Phe	Ala	Glu	Val	Phe
65					70					75					80

Pro	Leu	Lys	Val	Phe	Gly	Tyr	Gln	Pro	Asp	Pro	Leu	Lys	Leu	Pro	Asn
				85					90					95	

Ser	Cys	Gly	Leu	Ser	Gly	Thr	Ala	Gly	Trp	Val	Ala	Ala	Gly	His	Gly
			100					105					110		

Pro	Thr	Asp	Ala	Ala	Arg	Asp	Gln
		115					120

4309

<210> 4734

<211> 244

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (144)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (232)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4734

Ser	Thr	Phe	Asp	Lys	Gly	Tyr	Gly	Lys	Tyr	Phe	Ala	Ala	Gly	Glu	Lys
1				5				10						15	

Tyr	His	Thr	Ser	Ser	Val	Phe	His	Lys	Ala	Gln	Arg	Ala	Arg	Trp	Lys
			20					25					30		

Asn	Arg	Arg	Ser	Trp	Arg	Leu	Ser	Gly	Val	His	Trp	Ser	Pro	Ile	Phe
			35				40					45			

Cys	Arg	Ile	Ser	Ala	Leu	Lys	Val	Gly	Ala	Asp	Leu	Ser	His	Val	Phe
	50					55					60				

Cys	Ala	Ser	Ala	Ala	Ala	Pro	Val	Ile	Lys	Ala	Tyr	Ser	Pro	Glu	Leu
65					70					75					80

Ile	Val	His	Pro	Val	Leu	Asp	Ser	Pro	Asn	Ala	Val	His	Glu	Val	Glu
				85					90					95	

Lys	Trp	Leu	Pro	Arg	Leu	His	Ala	Leu	Val	Val	Gly	Pro	Gly	Leu	Gly
		100						105					110		

Arg	Asp	Asp	Ala	Leu	Leu	Arg	Asn	Val	Gln	Gly	Ile	Leu	Glu	Val	Ser
		115					120					125			

Lys	Ala	Arg	Asp	Ile	Pro	Val	Val	Ile	Asp	Ala	Asp	Gly	Leu	Trp	Xaa
	130					135					140				

Val	Ala	Gln	Gln	Pro	Ala	Leu	Ile	His	Gly	Tyr	Arg	Lys	Ala	Val	Leu
145					150					155					160

Thr	Pro	Asn	His	Val	Glu	Phe	Ser	Arg	Leu	Tyr	Asp	Ala	Val	Leu	Arg
				165					170					175	

4310

Gly Pro Met Asp Ser Asp Asp Ser His Gly Ser Val Leu Arg Leu Ser
 180 185 190
 Gln Ala Leu Gly Asn Val Thr Val Val Gln Lys Gly Glu Arg Asp Ile
 195 200 205
 Leu Ser Asn Gly Gln Gln Val Leu Val Cys Ser Gln Glu Gly Ser Ser
 210 215 220
 Ala Gly Val Glu Gly Lys Gly Xaa Ser Cys Arg Ala Pro Trp Ala Ser
 225 230 235 240
 Trp Tyr Thr Gly

<210> 4735

<211> 107

<212> PRT

<213> Homo sapiens

<400> 4735

Arg Asn Lys Ser Gln Met Gln Arg Tyr Asn Phe His Tyr Leu Lys Tyr
 1 5 10 15
 Ile Val His Phe Tyr Arg Thr Cys Asp Tyr Ser Arg Met Ile Arg Met
 20 25 30
 Val Leu Ala Tyr Gly Glu Leu Leu Leu Thr Val Ser Ala Glu Ile
 35 40 45
 Leu Phe Gln Trp Thr Asn Ile Val Ala Trp Gln Gln Met Pro Thr Phe
 50 55 60
 Cys Gly Ile Ala Ala Asn Leu Gln Glu Thr Leu Val Gly Phe Ser Phe
 65 70 75 80
 Cys Phe Leu Cys Phe Phe Pro Leu Leu Leu Asn Gln Gln Gly Trp Lys
 85 90 95
 Glu Gly Arg Glu Val Met Asn Tyr Ser Phe Gln
 100 105

<210> 4736

<211> 78

<212> PRT

<213> Homo sapiens

4311

<400> 4736

Val Val Ser Cys Gly Val Phe Phe Lys Lys Phe Asp Leu Ala Phe Ile
 1 5 10 15

Phe Ser Ile Leu Phe Pro Ile Lys Ser Met Gln Ile Ile Cys Pro Lys
 20 25 30

Leu Ser Ser Ser Ser Asp Ser Ala Phe Val Leu Cys Gln Ser His Phe
 35 40 45

His Leu Leu Pro Trp Phe His Arg Ser Phe Val Ser Trp Ala Ser Arg
 50 55 60

Lys Ile Lys Leu Tyr Leu Phe Cys Ile Cys Glu Met Phe Lys
 65 70 75

<210> 4737

<211> 171

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (164)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4737

Gly His Ser Glu Trp Val Ser Cys Val Arg Phe Ser Pro Asn Ser Ser
 1 5 10 15

Asn Pro Ile Ile Val Ser Cys Gly Trp Asp Lys Leu Val Lys Val Trp
 20 25 30

Asn Leu Ala Asn Cys Lys Leu Lys Thr Asn His Ile Gly His Thr Gly
 35 40 45

Tyr Leu Asn Thr Val Thr Val Ser Pro Asp Gly Ser Leu Cys Ala Ser
 50 55 60

Gly Gly Lys Asp Gly Gln Ala Met Leu Trp Asp Leu Asn Glu Gly Lys
 65 70 75 80

His Leu Tyr Thr Leu Asp Gly Gly Asp Ile Ile Asn Ala Leu Cys Phe
 85 90 95

Ser Pro Asn Arg Tyr Trp Leu Cys Ala Ala Thr Gly Pro Ser Ile Lys
 100 105 110

4312

Ile Trp Asp Leu Glu Gly Lys Ile Ile Val Asp Glu Leu Lys Gln Glu
 115 120 125

Val Ile Ser Thr Ser Ser Lys Ala Glu Pro Pro Gln Cys Thr Ser Leu
 130 135 140

Ala Trp Ser Ala Asp Gly Gln Thr Leu Phe Ala Gly Tyr Thr Asp Asn
 145 150 155 160

Leu Val Arg Xaa Gly Ser Asp His Trp Thr Arg
 165 170

<210> 4738

<211> 159

<212> PRT

<213> Homo sapiens

<400> 4738

Thr Pro Arg Asp Leu Val Cys Leu Gly Leu Ser Ser Ile Val Gly Val
 1 5 10 15

Trp Tyr Leu Leu Arg Lys His Trp Ile Ala Asn Asn Leu Phe Gly Leu
 20 25 30

Ala Phe Ser Leu Asn Gly Val Glu Leu Leu His Leu Asn Asn Val Ser
 35 40 45

Thr Gly Cys Ile Leu Leu Gly Gly Leu Phe Ile Tyr Asp Val Phe Trp
 50 55 60

Val Phe Gly Thr Asn Val Met Val Thr Val Ala Lys Ser Phe Glu Ala
 65 70 75 80

Pro Ile Lys Leu Val Phe Pro Gln Asp Leu Leu Glu Lys Gly Leu Glu
 85 90 95

Ala Asn Asn Phe Ala Met Leu Gly Leu Gly Asp Val Val Ile Pro Gly
 100 105 110

Ile Phe Ile Ala Leu Leu Leu Arg Phe Asp Ile Ser Leu Lys Lys Asn
 115 120 125

Thr His Thr Tyr Phe Tyr Thr Ser Phe Ala Ala Tyr Ile Phe Gly Leu
 130 135 140

Gly Leu Thr Ile Phe Ile Met His Ile Phe Lys His Ala Gln Leu
 145 150 155

4313

<210> 4739

<211> 70

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4739

Tyr Lys Tyr Arg Glu Glu Val Ser Met Asn Leu Xaa Ile Val Leu Ser
 1 5 10 15

Asn Pro Leu Glu Cys Gln Ser Leu Lys Asp Phe Ala Leu Leu His Gln
 20 25 30

Ile Thr Ser Phe Ser Gln Ile Pro Ile Ser Val Ile Thr Gly Ala Asn
 35 40 45

Leu Lys Val Leu Tyr Ser Phe Thr Thr Leu Gln Ile Cys Asn Ala Ala
 50 55 60

Tyr Asn Ala Glu Glu His
 65 70

<210> 4740

<211> 94

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4740

Thr Lys Xaa Lys Ser Gly Glu Leu Ala Val Thr Ser Thr Gly Gly His
 1 5 10 15

Gly Arg Glu Gly Ser Leu Leu Glu Gly Leu Pro Trp Arg Leu Glu Trp
 20 25 30

Gly Leu Pro Gly Arg Pro Ala Phe His Pro Cys Leu Pro His Pro Cys
 35 40 45

His Arg Leu Cys Thr Pro Leu Asp Gly Gly Ser Lys Pro Gly Thr Val
 50 55 60

4314

Pro Val Leu Val Arg Val Ile Ile Met Ile Asn Ile Asn Tyr Asp Ala
 65 70 75 80

Lys Asn Cys Trp Ala Asn Phe Glu Asp Leu Asn Leu Leu Gln
 85 90

<210> 4741
 <211> 128
 <212> PRT
 <213> Homo sapiens

<400> 4741
 Pro Ser Ser Leu Arg Lys Glu Ser Glu Ser Arg Glu Val Asp Ala Ser
 1 5 10 15
 Tyr Leu Leu Glu Arg Pro Ser Ser Val Ser Val Val Val Thr Ala Pro
 20 25 30
 Ser Ala Met Ser Phe Ser Ala Thr Ile Leu Phe Ser Pro Pro Ser Gly
 35 40 45
 Ser Glu Ala Arg Cys Cys Cys Cys Ala Cys Lys Ser Glu Thr Asn Gly
 50 55 60
 Gly Asn Thr Gly Ser Gln Gly Gly Asn Pro Pro Pro Ser Thr Pro Ile
 65 70 75 80
 Thr Val Thr Gly His Gly Leu Ala Val Gln Ser Ser Glu Gln Leu Leu
 85 90 95
 His Val Ile Tyr Gln Arg Val Asp Lys Ala Val Gly Leu Ala Glu Ala
 100 105 110
 Ala Leu Gly Leu Ala Arg Ala Asn Asn Glu Leu Leu Lys Arg Leu Gln
 115 120 125

<210> 4742
 <211> 74
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE

4315

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4742

Arg	Lys	Phe	Ser	Leu	Thr	His	Ser	Tyr	Gln	Ala	Ser	Ile	Ile	Gln	Ile
1				5					10					15	

Pro	Lys	Pro	Ile	Ile	Asp	Thr	Thr	Thr	Thr	Thr	Thr	Thr	Thr	Thr	His
			20				25						30		

His	Ala	Asn	Val	Phe	Gly	Lys	His	Cys	Ala	Lys	Ile	Leu	Asn	Lys	Ile
		35					40					45			

Leu	Ala	Ser	Gln	Ile	Gln	Gln	His	Ile	Lys	Lys	Phe	Ile	Xaa	Asn	Asn
	50					55					60				

Gly	Val	Gly	Phe	Val	Pro	Arg	Met	Gln	Gly
65						70			

<210> 4743

<211> 149

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (85)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (136)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (145)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4743

Ser	Trp	Ser	Arg	Glu	Arg	Ala	Pro	Ala	Pro	Leu	Trp	Glu	Asp	Arg	Glu
1				5					10					15	

Met	Pro	Val	Leu	Lys	Gln	Leu	Gly	Pro	Ala	Gln	Pro	Lys	Lys	Arg	Pro
			20					25					30		

Asp	Arg	Gly	Ala	Leu	Ser	Ile	Ser	Ala	Pro	Leu	Gly	Asp	Phe	Arg	His
		35					40					45			

4316

Thr Leu His Val Gly Arg Gly Gly Asp Ala Phe Gly Asp Thr Ser Phe
 50 55 60
 Leu Ser Arg His Gly Gly Gly Pro Pro Pro Ser Pro Gly Arg Pro Pro
 65 70 75 80
 Arg Gly Pro Arg Xaa Pro Arg Arg Arg Arg Arg Pro Gln Ser Ala Ala
 85 90 95
 Pro Arg Leu Arg Pro Ala Val Pro Ser Pro Gly Ser Gly Ala Ser Cys
 100 105 110
 Trp Thr Arg Cys Trp Arg Met Asp Ala Ala Arg Arg Ser Gly Cys Ala
 115 120 125
 Ser His Ala Asn Pro Pro Gly Xaa Ala Pro Ala Val Arg His Ala Thr
 130 135 140
 Xaa Tyr Thr Met Ala
 145

<210> 4744

<211> 167

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (162)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (166)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4744

Arg Arg Pro Arg Ser Arg Leu Arg Val Thr Ser Val Ser Asp Gln Asn
 1 5 10 15
 Asp Arg Val Val Glu Cys Gln Leu Gln Thr His Asn Ser Lys Met Val
 20 25 30
 Thr Phe Arg Phe Asp Leu Asp Gly Asp Ser Pro Glu Glu Ile Ala Ala
 35 40 45
 Ala Met Val Tyr Asn Glu Phe Ile Leu Pro Ser Glu Arg Asp Gly Phe
 50 55 60

4317

Leu Arg Arg Ile Arg Glu Ile Ile Gln Arg Val Glu Thr Leu Leu Lys
 65 70 75 80
 Arg Asp Thr Gly Pro Met Glu Ala Ala Glu Asp Thr Leu Ser Pro Gln
 85 90 95
 Glu Glu Pro Ala Pro Leu Pro Ala Leu Pro Val Pro Leu Pro Asp Pro
 100 105 110
 Ser Asn Glu Glu Leu Gln Ser Ser Thr Ser Leu Glu His Arg Ser Trp
 115 120 125
 Thr Ala Phe Ser Thr Ser Phe Ile Leu Ser Ser Trp Glu Leu Leu Cys
 130 135 140
 Leu Leu Gly Asn Pro Phe Ser Pro Gly Thr Pro Ile Phe Pro Arg Val
 145 150 155 160
 Pro Xaa Phe Pro Ile Xaa Phe
 165

<210> 4745

<211> 279

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (247)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4745

Ala Gln Asp Gln Trp Ser Glu Leu Phe Met Asp Ala Leu Gly Pro Phe
 1 5 10 15
 Asn Phe Val Leu Val Ser Ser Val Arg Met Gln Gly Val Ile Leu Leu
 20 25 30
 Leu Phe Ala Lys Tyr Tyr His Leu Pro Phe Leu Arg Asp Val Gln Thr
 35 40 45
 Asp Cys Thr Arg Thr Gly Leu Gly Gly Tyr Trp Gly Asn Lys Gly Gly
 50 55 60
 Val Ser Val Arg Leu Ala Ala Phe Gly His Met Leu Cys Phe Leu Asn
 65 70 75 80
 Cys His Leu Pro Ala His Met Asp Lys Ala Glu Gln Arg Lys Asp Asn
 85 90 95

4318

Phe Gln Thr Ile Leu Ser Leu Gln Gln Phe Gln Gly Pro Gly Ala Gln
 100 105 110
 Gly Ile Leu Asp His Asp Leu Val Phe Trp Phe Gly Asp Leu Asn Phe
 115 120 125
 Arg Ile Glu Ser Tyr Asp Leu His Phe Val Lys Phe Ala Ile Asp Ser
 130 135 140
 Asp Gln Leu His Gln Leu Trp Glu Lys Asp Gln Leu Asn Met Ala Lys
 145 150 155 160
 Asn Thr Trp Pro Ile Leu Lys Gly Phe Gln Glu Gly Pro Leu Asn Phe
 165 170 175
 Ala Pro Thr Phe Lys Phe Asp Val Gly Thr Asn Lys Tyr Asp Thr Ser
 180 185 190
 Ala Lys Lys Arg Lys Pro Ala Trp Thr Asp Arg Ile Leu Trp Lys Val
 195 200 205
 Lys Ala Pro Gly Gly Gly Pro Ser Pro Ser Gly Arg Lys Ser His Arg
 210 215 220
 Leu Gln Val Thr Gln His Ser Tyr Arg Ser His Met Glu Tyr Thr Val
 225 230 235 240
 Ser Asp His Lys Pro Val Xaa Ala Gln Phe Leu Leu Gln Phe Ala Phe
 245 250 255
 Gln Gly Arg His Ala Thr Gly Ala Ala Gly Gly Gly Gln Met Ser Gly
 260 265 270
 Cys Gly Pro Ser Arg Arg Trp
 275

<210> 4746

<211> 108

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (24)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4746

Pro Met Ala Leu Ala Lys Thr Ala Ile Leu Val Arg Leu Ser Tyr Phe

4319

1 5 10 15
 Leu Phe Ile Asp Thr Ser Thr Xaa Thr Ala Phe Leu Ser Ser Val Asp
 20 25 30
 Leu His Thr His Cys Ser Tyr Gln Leu Met Leu Pro Glu Ala Ile Ala
 35 40 45
 Ile Val Cys Ser Pro Lys His Lys Asp Thr Gly Ile Phe Arg Leu Thr
 50 55 60
 Asn Ala Gly Met Leu Glu Val Ser Ala Cys Lys Lys Lys Gly Phe His
 65 70 75 80
 Pro His Thr Lys Glu Pro Arg Leu Phe Ser Ile Cys Lys His Val Leu
 85 90 95
 Val Lys Asp Ile Lys Ile Ile Val Leu Asp Leu Arg
 100 105

<210> 4747

<211> 84

<212> PRT

<213> Homo sapiens

<400> 4747

Lys Glu Met Val Ile Leu Trp Thr Met Glu Thr Ser Ser Glu Tyr Ala
 1 5 10 15
 Asp Phe Pro Leu Leu Thr Leu Pro Ser Leu Trp Leu Leu Leu Pro Asp
 20 25 30
 Lys Gly Gln Gly His Leu Lys Thr Leu Pro Pro Val Gly Phe Gly Val
 35 40 45
 Thr Gly Ala Ser Ala Cys Ser His Ile Phe Gln Lys Gly Ser Ala Leu
 50 55 60
 Arg Thr Ser Leu Tyr Leu Gly Phe Leu Ile Pro Leu Ala Val Leu Thr
 65 70 75 80
 Ser Arg Glu Thr

<210> 4748

<211> 65

<212> PRT

4320

<213> Homo sapiens

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (36)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4748

Met	Phe	Lys	Leu	Tyr	Ser	Ser	Leu	Ala	Arg	Met	Xaa	Asn	Thr	Cys	Ala
1				5					10					15	

Leu	Lys	Ala	Asn	Arg	Glu	Arg	Val	His	Asn	Ile	Leu	Gln	Xaa	Leu	Lys
			20					25					30		

His	Asn	Leu	Xaa	His	His	Leu	Pro	Leu	Ala	Asn	Ile	Pro	Ser	Gln	Leu
		35					40					45			

Phe	Ser	Arg	Glu	Glu	Pro	Phe	Lys	Leu	Trp	Ser	Ser	Ile	Tyr	Tyr	Phe
	50					55					60				

His
65

<210> 4749

<211> 27

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (7)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (23)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4749

4321

Arg Asn Ala Lys Val Gly Xaa Gly Val Val Ala His Ala Cys Gly Pro
 1 5 10 15

Gly Cys Leu Gly Gly Trp Xaa Gly Arg Ile Ala
 20 25

<210> 4750

<211> 118

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (113)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4750

Ser Ser Tyr Ser Lys Ile Ser Leu Arg Asn Ser Ser Lys Val Thr Glu
 1 5 10 15

Ser Ala Ser Val Xaa Gln Ser Gln Asp Val Ser Gly Ser Glu Asp Thr
 20 25 30

Phe Pro Asn Lys Arg Pro Arg Leu Glu Asp Lys Thr Val Phe Asp Asn
 35 40 45

Phe Phe Ile Lys Lys Glu Gln Ile Lys Ser Ser Gly Asn Asp Pro Lys
 50 55 60

Tyr Ser Thr Thr Thr Ala Gln Asn Ser Ser Ser Ser Ser Ser Gln Ser
 65 70 75 80

Lys Met Val Asn Cys Pro Val Cys Gln Asn Glu Val Leu Glu Ser Gln
 85 90 95

Ile Asn Glu His Leu Asp Trp Cys Leu Glu Gly Asp Ser Ile Lys Val
 100 105 110

Xaa Ser Glu Glu Ser Leu
 115

<210> 4751

4322

<211> 172

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (116)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4751

Pro	Thr	Arg	Pro	Pro	Gln	Ala	Asn	Arg	Gly	Val	Val	Arg	Trp	Glu	Tyr
1				5					10					15	

Phe	Arg	Leu	Arg	Pro	Leu	Arg	Phe	Arg	Ala	Pro	Ala	Leu	Arg	Leu	Gln
		20						25					30		

Lys	Ser	Gln	Ser	Ser	Asp	Leu	Leu	Glu	Arg	Glu	Arg	Glu	Ser	Val	Leu
		35					40					45			

Arg	Arg	Glu	Gln	Glu	Val	Xaa	Glu	Glu	Arg	Arg	Asn	Ala	Leu	Phe	Pro
		50				55					60				

Glu	Val	Phe	Ser	Pro	Thr	Pro	Asp	Glu	Asn	Ser	Asp	Gln	Asn	Ser	Arg
65					70					75					80

Ser	Ser	Ser	Gln	Ala	Ser	Gly	Ile	Thr	Gly	Ser	Tyr	Ser	Val	Ser	Glu
				85					90					95	

Ser	Pro	Phe	Phe	Ser	Pro	Ile	His	Leu	His	Ser	Asn	Val	Ala	Trp	Thr
			100					105					110		

Val	Glu	Asp	Xaa	Val	Asp	Ser	Ala	Pro	Pro	Gly	Gln	Arg	Lys	Lys	Glu
		115					120					125			

Gln	Trp	Tyr	Ala	Gly	Ile	Asn	Pro	Ser	Asp	Gly	Ile	Asn	Ser	Glu	Val
	130					135					140				

Leu	Glu	Ala	Ile	Arg	Val	Thr	Arg	His	Lys	Asn	Ala	Met	Ala	Glu	Arg
145					150					155					160

Trp	Glu	Ser	Arg	Ile	Tyr	Ala	Ser	Glu	Glu	Asp	Asp
				165						170	

<210> 4752

4323

<211> 119
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (95)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (100)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 4752
 Glu Trp Glu Cys Trp Leu Leu Leu Gln Tyr Trp Ser Leu Tyr Thr Val
 1 5 10 15
 Leu His Thr Arg Phe Phe Ser Gly Tyr Met Ser Phe Leu Ser Lys Leu
 20 25 30
 Cys Gly Ser His Glu Glu Thr Ser Asn Gln Gly Lys Gly Glu Gly Leu
 35 40 45
 Arg His Lys Thr Tyr Leu Tyr Lys Ile Ser Phe Lys Asn Ser Asn Leu
 50 55 60
 Gly His Val Lys Phe Phe Tyr Ile Phe Ser Cys Leu Asn Leu Ser Ser
 65 70 75 80
 Phe Phe Met Leu Cys Ser Ala Arg Lys Cys Gly Glu Met Asp Xaa Gly
 85 90 95
 Gly Cys Gly Xaa Asp Arg Trp Leu Gly Ser Thr Cys Leu Cys Leu Phe
 100 105 110
 Pro Phe Met Cys Ser Cys Val
 115

<210> 4753
 <211> 193
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1)
 <223> Xaa equals any of the naturally occurring L-amino acids

4324

<400> 4753

Xaa Gly Arg Ala Trp Val Met Ala Ala Pro Gly Ala Leu Leu Val Met
 1 5 10 15

Gly Val Ser Gly Ser Gly Lys Ser Thr Val Gly Ala Leu Leu Ala Ser
 20 25 30

Glu Leu Gly Trp Lys Phe Tyr Asp Ala Asp Asp Tyr His Pro Glu Glu
 35 40 45

Asn Arg Arg Lys Met Gly Lys Gly Ile Pro Leu Asn Asp Gln Asp Arg
 50 55 60

Ile Pro Trp Leu Cys Asn Leu His Asp Ile Leu Leu Arg Asp Val Ala
 65 70 75 80

Ser Gly Gln Arg Val Val Leu Ala Cys Ser Ala Leu Lys Lys Thr Tyr
 85 90 95

Arg Asp Ile Leu Thr Gln Gly Lys Asp Gly Val Ala Leu Lys Cys Glu
 100 105 110

Glu Ser Gly Lys Glu Ala Lys Gln Ala Glu Met Gln Leu Leu Val Val
 115 120 125

His Leu Ser Gly Ser Phe Glu Val Ile Ser Gly Arg Leu Leu Lys Arg
 130 135 140

Glu Gly His Phe Met Pro Pro Glu Leu Leu Gln Ser Gln Phe Glu Thr
 145 150 155 160

Leu Glu Pro Pro Ala Ala Pro Glu Asn Phe Ile Gln Ile Ser Val Asp
 165 170 175

Lys Asn Val Ser Glu Ile Ile Ala Thr Ile Met Glu Thr Leu Lys Met
 180 185 190

Lys

<210> 4754

<211> 194

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (182)

<223> Xaa equals any of the naturally occurring L-amino acids

4325

<400> 4754

Gln Asp His Gly Ala Trp Leu Arg Gly Gly Asp Val Trp Leu Asp Ser
 1 5 10 15
 Cys Arg Phe Ala Asp Asn Gly Ile Gly Leu Thr Leu Ala Ser Gly Gly
 20 25 30
 Thr Phe Pro Tyr Asp Asp Gly Ser Lys Gln Glu Ile Lys Asn Ser Leu
 35 40 45
 Phe Val Gly Glu Ser Gly Asn Val Gly Thr Glu Met Met Asp Asn Arg
 50 55 60
 Ile Trp Gly Pro Gly Gly Leu Asp His Ser Gly Arg Thr Leu Pro Ile
 65 70 75 80
 Gly Gln Asn Phe Pro Ile Arg Gly Ile Gln Leu Tyr Asp Gly Pro Ile
 85 90 95
 Asn Ile Gln Asn Cys Thr Phe Arg Lys Phe Val Ala Leu Glu Gly Arg
 100 105 110
 His Thr Ser Ala Leu Ala Phe Arg Leu Asn Asn Ala Trp Gln Ser Cys
 115 120 125
 Pro His Asn Asn Val Thr Gly Ile Ala Phe Glu Asp Val Pro Ile Thr
 130 135 140
 Ser Arg Val Phe Phe Gly Glu Pro Gly Pro Trp Phe Asn Gln Leu Asp
 145 150 155 160
 Met Asp Gly Asp Lys Thr Ser Val Phe His Asp Val Asp Gly Ser Val
 165 170 175
 Ser Glu Tyr Pro Gly Xaa Tyr Leu Arg Arg Met Thr Thr Gly Trp Ser
 180 185 190
 Gly Thr

<210> 4755

<211> 500

<212> PRT

<213> Homo sapiens

<400> 4755

Ile Arg His Glu Lys Asp Arg Gly Pro Arg Arg Ser Val Ser Phe Pro
 1 5 10 15

4326

Arg Ala Leu Ser Gly Asn Met Ala Gly Val Glu Glu Val Ala Ala Ser
 20 25 30

Gly Ser His Leu Asn Gly Asp Leu Asp Pro Asp Asp Arg Glu Glu Gly
 35 40 45

Ala Ala Ser Thr Ala Glu Glu Ala Ala Lys Lys Lys Arg Arg Lys Lys
 50 55 60

Lys Lys Ser Lys Gly Pro Ser Ala Ala Gly Glu Gln Glu Pro Asp Lys
 65 70 75 80

Glu Ser Gly Ala Ser Val Asp Glu Val Ala Arg Gln Leu Glu Arg Ser
 85 90 95

Ala Leu Glu Asp Lys Glu Arg Asp Glu Asp Asp Glu Asp Gly Asp Gly
 100 105 110

Asp Gly Asp Gly Ala Thr Gly Lys Lys Lys Lys Lys Lys Lys Lys Lys
 115 120 125

Arg Gly Pro Lys Val Gln Thr Asp Pro Pro Ser Val Pro Ile Cys Asp
 130 135 140

Leu Tyr Pro Asn Gly Val Phe Pro Lys Gly Gln Glu Cys Glu Tyr Pro
 145 150 155 160

Pro Thr Gln Asp Gly Arg Thr Ala Ala Trp Arg Thr Thr Ser Glu Glu
 165 170 175

Lys Lys Ala Leu Asp Gln Ala Ser Glu Glu Ile Trp Asn Asp Phe Arg
 180 185 190

Glu Ala Ala Glu Ala His Arg Gln Val Arg Lys Tyr Val Met Ser Trp
 195 200 205

Ile Lys Pro Gly Met Thr Met Ile Glu Ile Cys Glu Lys Leu Glu Asp
 210 215 220

Cys Ser Arg Lys Leu Ile Lys Glu Asn Gly Leu Asn Ala Gly Leu Ala
 225 230 235 240

Phe Pro Thr Gly Cys Ser Leu Asn Asn Cys Ala Ala His Tyr Thr Pro
 245 250 255

Asn Ala Gly Asp Thr Thr Val Leu Gln Tyr Asp Asp Ile Cys Lys Ile
 260 265 270

Asp Phe Gly Thr His Ile Ser Gly Arg Ile Ile Asp Cys Ala Phe Thr
 275 280 285

4327

Val Thr Phe Asn Pro Lys Tyr Asp Thr Leu Leu Lys Ala Val Lys Asp
 290 295 300

Ala Thr Asn Thr Gly Ile Lys Cys Ala Gly Ile Asp Val Arg Leu Cys
 305 310 315 320

Asp Val Gly Glu Ala Ile Gln Glu Val Met Glu Ser Tyr Glu Val Glu
 325 330 335

Ile Asp Gly Lys Thr Tyr Gln Val Lys Pro Ile Arg Asn Leu Asn Gly
 340 345 350

His Ser Ile Gly Gln Tyr Arg Ile His Ala Gly Lys Thr Val Pro Ile
 355 360 365

Val Lys Gly Gly Glu Ala Thr Arg Met Glu Glu Gly Glu Val Tyr Ala
 370 375 380

Ile Glu Thr Phe Gly Ser Thr Gly Lys Gly Val Val His Asp Asp Met
 385 390 395 400

Glu Cys Ser His Tyr Met Lys Asn Phe Asp Val Gly His Val Pro Ile
 405 410 415

Arg Leu Pro Arg Thr Lys His Leu Leu Asn Val Ile Asn Glu Asn Phe
 420 425 430

Gly Thr Leu Ala Phe Cys Arg Arg Trp Leu Asp Arg Leu Gly Glu Ser
 435 440 445

Lys Tyr Leu Met Ala Leu Lys Asn Leu Cys Asp Leu Gly Ile Val Asp
 450 455 460

Pro Tyr Pro Pro Leu Cys Asp Ile Lys Gly Ser Tyr Thr Ala Gln Phe
 465 470 475 480

Glu His Thr Ile Leu Leu Arg Pro Thr Cys Lys Glu Val Val Ser Arg
 485 490 495

Gly Asp Asp Tyr
 500

<210> 4756

<211> 76

<212> PRT

<213> Homo sapiens

<400> 4756

4328

Ala Leu Ala Ile Ala Glu Lys Ser Gln Glu Phe Leu Glu Ala Asp Asn
 1 5 10 15

Arg Gln Leu Pro Asn Gly Val Tyr Thr Thr Ala Glu Gln Arg Pro Asn
 20 25 30

Ala Tyr Ile Pro Glu Ala Asp Ala Thr Leu Pro Leu Pro Lys Pro Tyr
 35 40 45

Gly Ala Leu Ala Pro Phe Lys Pro Ser Glu Pro Gly Ala Asn Met Arg
 50 55 60

His Ile Arg Lys Pro Val Ile Lys Pro Val Glu Ile
 65 70 75

<210> 4757

<211> 113

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4757

Met Ala Tyr Thr Ile Pro Val Ile Ile Val Gly Gly Cys Trp Phe Ala
 1 5 10 15

Trp Arg His Gln Ser Ser Asp Glu Xaa Ile Asp Tyr Phe Ala Val Ser
 20 25 30

Leu Arg Ile Ile Gly Val Leu Ala Leu Ile Leu Thr Ser Cys Gly Leu
 35 40 45

4329

Ala Ala Ile Asn Ala Asp Xaa Ile Trp Tyr Phe Ala Ser Gly Gly Val
 50 55 60

Xaa Gly Ser Leu Leu Ser Thr Xaa Leu Gln Pro Leu Leu His Ser Ser
 65 70 75 80

Gly Gly Thr Ile Ala Leu Leu Cys Val Trp Ala Ala Gly Leu Thr Leu
 85 90 95

Phe Thr Gly Trp Ser Trp Val Thr Leu Leu Lys Asn Ser Ala Ala Gly
 100 105 110

Phe

<210> 4758

<211> 111

<212> PRT

<213> Homo sapiens

<400> 4758

Thr Ile Cys Val Val Arg Gly Ala Thr Ala Ile Ser Ala Glu Leu Gly
 1 5 10 15

Gly Ile Ser Thr Thr Phe Leu Ser Ala Glu Ala Phe Pro Pro Thr Leu
 20 25 30

Met Leu Phe Asn Ser Val Leu Arg Gln Pro Gln Leu Gly Val Leu Arg
 35 40 45

Asn Gly Trp Ser Ser Gln Tyr Pro Leu Gln Ser Leu Leu Thr Gly Tyr
 50 55 60

Gln Cys Ser Gly Asn Asp Glu His Thr Ser Tyr Gly Glu Thr Gly Val
 65 70 75 80

Pro Val Pro Pro Phe Gly Cys Thr Phe Ser Ser Ala Pro Asn Met Glu
 85 90 95

His Val Leu Ala Val Ala Asn Glu Glu Gly Phe Cys Ser Ile Val
 100 105 110

<210> 4759

<211> 157

<212> PRT

<213> Homo sapiens

4330

<220>

<221> SITE

<222> (117)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (133)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (144)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4759

Ala	Gly	Glu	Arg	Asp	Gln	Gly	Arg	Arg	Arg	Gly	Glu	Ser	Arg	Glu	Gly
1				5					10					15	

Trp	Ser	Phe	Gly	Glu	Ser	Leu	Trp	Lys	Met	Ala	Pro	Val	Val	Thr	Gly
			20					25					30		

Lys	Phe	Gly	Glu	Arg	Pro	Pro	Pro	Lys	Arg	Leu	Thr	Arg	Glu	Ala	Met
		35					40					45			

Arg	Asn	Tyr	Leu	Lys	Glu	Arg	Gly	Asp	Gln	Thr	Val	Leu	Ile	Leu	His
	50					55					60				

Ala	Lys	Val	Ala	Gln	Lys	Ser	Tyr	Gly	Asn	Glu	Lys	Arg	Phe	Phe	Cys
65					70					75					80

Pro	Pro	Pro	Cys	Val	Tyr	Leu	Met	Gly	Ser	Gly	Trp	Lys	Lys	Lys	Lys
				85					90					95	

Glu	Gln	Met	Glu	Arg	Asp	Gly	Cys	Ser	Glu	Gln	Glu	Ser	Gln	Pro	Cys
		100						105					110		

Ala	Phe	Ile	Gly	Xaa	Gly	Asn	Ser	Asp	Gln	Glu	Met	Gln	Gln	Leu	Asn
		115					120					125			

Leu	Gly	Arg	Lys	Xaa	Leu	Leu	His	Ser	Gln	Thr	Leu	Tyr	Ile	Ser	Xaa
	130					135					140				

Ser	Ala	Ser	Glu	Asp	Phe	His	Val	Val	Cys	Lys	Val	Phe
145					150					155		

<210> 4760

<211> 60

4331

<212> PRT

<213> Homo sapiens

<400> 4760

Leu Arg Met Cys Glu Lys Leu Thr Glu Pro Asp Ala Cys Cys Tyr Phe
1 5 10 15

Thr Ala Met Ser Leu Phe Leu Ser Thr Leu Lys Ile Phe Phe Leu Phe
20 25 30

Asn Val Val Tyr Phe Gly Leu Arg Asn Asn Cys Ser Val Glu Asn Asn
35 40 45

Pro Leu Ser Glu Lys Lys Val Ala Thr Thr Ser Phe
50 55 60

<210> 4761

<211> 460

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (303)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (305)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (436)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (442)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (444)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (447)

4332

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (448)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4761

Leu	Asp	Ala	Pro	Leu	Asp	Thr	Phe	Asn	Gly	Asn	Arg	Phe	Ala	Leu	Arg
1				5					10					15	

Leu	Thr	Ala	Ile	Phe	Leu	Gln	Pro	Leu	Gly	Lys	Leu	Val	Val	Arg	Ala
			20					25					30		

Leu	His	Gly	Pro	Trp	Asn	Thr	Asp	Ser	Pro	Asp	Asn	Leu	Glu	Glu	Val
		35				40					45				

Lys	Phe	Leu	Leu	His	Met	Trp	Val	Ala	Leu	Phe	Tyr	Ser	Asn	Gln	Asn
	50					55					60				

Lys	Ile	Ile	Arg	Ser	Ser	Arg	Lys	Val	Val	Glu	His	Ser	Asn	Pro	Ala
65					70					75					80

Lys	Tyr	Val	Ser	Ile	Asn	Ser	Thr	Leu	Glu	Ser	Cys	Glu	Leu	Arg	Glu
				85					90					95	

Ile	Glu	Glu	Ser	Leu	Gly	Leu	Glu	Lys	Cys	Ser	Ala	Asp	Ser	Leu	Leu
			100					105					110		

Glu	Thr	Asn	Glu	Ile	Ser	Arg	Ala	His	Ala	Ala	Glu	Val	Ser	Phe	Arg
		115					120					125			

Asp	Pro	Asn	Cys	Leu	Leu	Pro	Phe	Ile	Lys	Thr	Pro	Leu	Thr	Gln	Gly
	130					135					140				

Leu	Glu	Leu	Cys	Val	Gln	Asn	Glu	Gln	Lys	Lys	Thr	Phe	Ala	Arg	Glu
145					150					155					160

Cys	Asp	Pro	Asp	Thr	Gln	Glu	Asp	Gln	Asn	Phe	Ile	Cys	Ser	Tyr	Asn
				165					170					175	

Asn	Glu	Val	Thr	Gly	Glu	Glu	Ala	Lys	Gln	Glu	Ser	Leu	Glu	Thr	Ser
			180					185					190		

Asn	Leu	Val	Leu	Ser	Gly	Ile	Gly	Ser	Thr	Gln	Thr	Asn	Gly	Pro	Ser
	195						200						205		

Val	Pro	Ser	Glu	Glu	Glu	Ile	Val	Gln	Pro	Leu	Asp	Ser	Thr	Arg	Val
	210					215					220				

Ala	Ser	Tyr	Ser	Gly	Thr	Val	Thr	Gln	Ala	Thr	Phe	Thr	Arg	Thr	Tyr
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4333

225		230		235		240
Asp Gly Pro Gly Ser Gln Pro Val Ile Cys Gln Ser Ser Val Tyr Gly						
	245		250		255	
Thr Leu Glu Asn Lys Val Asp Ile Leu Asp Ala Ala Val Gln Thr Lys						
	260		265		270	
Thr Gly Thr Leu Gln Asp Leu Ile Gln His Gly Ser Pro Ile Asn Asn						
	275		280		285	
Glu Cys His Pro Ser Leu Glu Arg Lys Asp Asp Asn Met Gly Xaa Ala						
	290		295		300	
Xaa Ile Asn Pro Glu Pro Ile Thr Leu Thr Phe Glu Lys Asn Ala His						
305		310		315		320
Val Pro Ile Gln Thr Glu Gly Val Asn Thr Ala Asp Glu Pro Thr Thr						
	325		330		335	
Phe Lys Lys Glu Leu Ile Lys Gln Val Ser Pro Ala Ala Ser Leu Arg						
	340		345		350	
His Pro Val Ser Thr Ser Glu Asn Ala Arg Thr Gln Gly Leu Arg Asp						
	355		360		365	
Ile Pro Ser Leu Val Val Ala Gly Gln Lys Gly Thr Lys Tyr Leu Cys						
	370		375		380	
Ala Ser Ser Val Gly Gly Glu Thr Leu Asp Lys Ala Val Cys Ser Leu						
385		390		395		400
Gln Lys Glu Thr Pro Leu Pro Val Ser Leu Pro Ser Asp Lys Thr Met						
	405		410		415	
Val Met Glu Ala Leu Ser Leu Ala Lys Ser Ser Ser His Leu Ser Pro						
	420		425		430	
Ser Glu Glu Xaa Arg Cys Thr Gln Asp Xaa Leu Xaa Gln Thr Xaa Xaa						
	435		440		445	
Leu Leu Gly Leu Ser Leu Glu Arg Leu Leu Arg Thr						
	450		455		460	

<210> 4762

<211> 72

<212> PRT

<213> Homo sapiens

4334

<400> 4762

Ala Ser Asp Pro Thr Leu Val Leu Ala Pro Gln Gln Trp Leu Pro Leu
 1 5 10 15

Thr Leu Ser Arg Arg Trp Leu Gly Gly Gly Tyr Leu Trp Val Ala Gly
 20 25 30

Lys Gly Val Gly Arg Phe Arg Met Val Gly Gly Thr Glu Val Pro Glu
 35 40 45

Val Lys Arg Pro Leu Val Leu Thr Gly Leu Thr Arg Ala Trp Thr Leu
 50 55 60

Gly Ala Val Leu Cys Glu Leu Ala
 65 70

<210> 4763

<211> 135

<212> PRT

<213> Homo sapiens

<400> 4763

Trp Glu Pro Thr Phe Phe Gly Phe Ser Gly Glu His Asn Ser Lys His
 1 5 10 15

Pro Leu Gly Ser His Met Tyr Arg Asn Gly Thr Gln Leu Gly His Ser
 20 25 30

His Gly Leu Pro Arg Pro Gly Met Cys Gly Ala Lys Trp Gly Gln Gly
 35 40 45

Pro Asp Pro Arg Gly Glu Gly Gly Pro Gln Thr Pro Arg Asp Val Ser
 50 55 60

Ile Pro Arg Pro Ala Phe Trp Arg His Leu Pro Gly Ala Val Leu Ser
 65 70 75 80

Gln Gln Ala Trp Gly Glu Ser Leu Val Tyr Ala Gly Asn Arg Val Gln
 85 90 95

Gly Pro Ser Val Pro Pro Ser Ala Leu Thr Trp Ala Met His Pro Leu
 100 105 110

Ser Pro Lys His Lys Gln Ala Leu Leu Gln Tyr Gly Ala Arg Thr Gly
 115 120 125

Val Pro Ser Val Leu Trp Leu
 130 135

4335

<210> 4764

<211> 106

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (105)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 4764

His	Lys	Cys	Phe	Gln	Cys	Phe	Ile	Leu	Ala	Asn	Gly	Phe	Leu	Lys	Val
1				5					10					15	

Ile	Lys	Pro	Phe	Gln	Arg	Asn	Trp	Ser	Asp	Lys	Thr	Phe	Phe	Leu	Val
			20					25					30		

Cys	Leu	Asn	Lys	Ala	Ile	Ser	Glu	Ala	Leu	Leu	Ser	Lys	Met	Thr	Phe
		35					40					45			

Leu	Ser	Phe	Phe	Lys	Thr	Asn	Leu	Leu	Leu	Leu	Glu	Thr	Phe	Cys	Thr
	50					55					60				

Ile	Lys	Gln	Ser	Arg	Arg	Leu	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys
65					70					75					80

Lys	Arg	Ala	Ala	Ala	Leu	Glu	Asp	Pro	Ser	Leu	Arg	Thr	Arg	Ala	Cys
				85					90					95	

Asp	Val	Ile	Ala	Leu	Leu	Leu	Arg	Xaa	Pro
			100					105	

<210> 4765

<211> 287

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (139)

<223> Xaa equals any of the naturally occurring L-amino acids